THE TIMES Higher Education SUPPLEMENT

Engineering standards need reform, IEE says

in goes on to organ that can suba-tion with employers on university carrientom structure is "virtually non-existent" and that thinking on whother cagineering degree courses are vocational or general adacation ls confused. The ganerol pattern i planted for the low alatus

courses,

"Emry stondards to engineering degree courses should be a conter of concern to the IEE", the report says, "There is no evidence that lower entry standurds permitted in the past decade have encouraged order school leavers to enter engin-

eering compact.
. "There is a need for reform of the standard of engineering educa-non courses. Consultation with the user (the employers) is virtually

The standard of engineering courses of Britain's universities should be reformed, a new report released this work by the Institution of the result of the re out between industry and higher education.

this week by the Institution of Electrical-Engineers has claimed.
The report, an interim document prepared by an IEE working party which has spent a year examining the education and training requirements of engineers, also colls for a national accredition system for engineering degrees.

Cumining education was now a necessary part of the professional engineering degrees.

The report orgues for the estab-lishment of a national accrediting system for checking the sccept-shility of engineering degrees. To enhance the profession relevant degree courses should be en-couraged and tests of professional competence should also be con-sidered seriously. sidered seriously.

A blueprint of brood recommen-A blueprint of brood recommendations has been put forward by the working purty, headed by Mr J. H. Merrimon, senior director of the Post Office Telecomounications headquarters. These state that:

"Extended degree courses in electrical cogineering should be encouraged. This seems to be the most significant single factor in enhancing the credibility and occeptability of potential professional englocers to society."

The working party says that one The devalopment of these enlienwoy of raising the educational ced degree contrices should be understondard of the initial qualifying degree would be to support the sions with putential employers.

CBI to discuss use of money paid to student union funds

Action over payment of student upon fees for thousands of students sponoored by industry was considered by the Confederation of British Industry this wook. Its education and training compositee was due to discuss it at dta quovterly meeting on Wednesday.

Employers have become contained to the containing of the content of the content

Employers have become concerned since the amouncement last month that the Public Accounts Committee is to investigate the

month that the Public Accounts Committee is to investigate the question of the eccountability of student unions. Their chief worry is over the destination of the money which goes into union funds.

The National Union of Students, which last week, warned unions obout spending funds on political causes, is also warried obout this.

The CBI committee was asked this week to give guidance to emplayers about the payment of fees.

fees.

Mr Peter Ashby, deputy president of the NUS, said that this urian would be roising the issue of fees et a meeting with the CBI on Mon-

It is not clear, how many students in him their union fees paid by employers, but according to a partial mentory answer lass month there ore 5,700 science students under industrial sponsorship on further education sendwich courses and 21,500 on engineering and technology courses. The figures for day release ore 18,600 and 307,000 respectively.

Not all of these, however, have their union feos nold by employers. Many further oducation colleges find it impossible to collect feea from doy release students. The amount due from such students is often as low ao 50p and rerely more thon £2.

The NUN wunts to sort out the current confusing fees system. Mr Ash by said then under proposols pur to the Government by the NUS, oil union fees would be puld automatically by the Government.

Council joins poly dispute

work courses.

Mr. Rag. Wright, assistant director of the CCTSW, has written to the polytechnic expressing "serious concern" about the courses which in two years have lost more than five lacturers who have not been repleted.

Su far, the polytechnic has no firm plays to appears new staff despite irequests from gifth the social sale full committee of the academic world not resume until be distributed and that week that tesching would not resume until be distributed as science faculty beard, said this week that the polytechnic was extremely chort of modey for sleft floored 44,000 for halping extremely chort of modey for sleft floored 44,000 for halping oppointments.

Brunel staff stop teaching

The Control Council for Education and Training in Social Work has stepped into the long-running dispote at Middlesex Polytechnic over staffing levels on its three actal work courses.

Mr Rag Wright assistant director

oppointments.

Stoff: student lettles on Middle-sox's social work courses for exceed the 1:1B norm loid down notionally by the CCETSW. On the diploma in social work it is 1:13; on the social science degree it is 1:14 middle social science degree it is 1:14 middle social work corrificate course 1:17.8.

The added: "Although the atnff Recurrent eduction in Augiralia Augiralia

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The

Guidelines on access to files proposed

sity lecturers better access to files obout themselves will be proposed of the Association of University Teachers' Conocil next week.

The code has been drawn up the AUT executive in the worke protests about Exeter University whore students discovered a list of "anti-establishment" lecturers dur-

It says that assessments of indi-viduals should be kent confidential If the Information is given on that bosis but any critical remarks obou a lecturer should not be kapt o lile and the person supplying the information should be rold this.

Critical comments gode about lec turers by someone within their insti-tution should also be drawn to their ettention. An independent assessor should look at a rondom selection of files once o year.

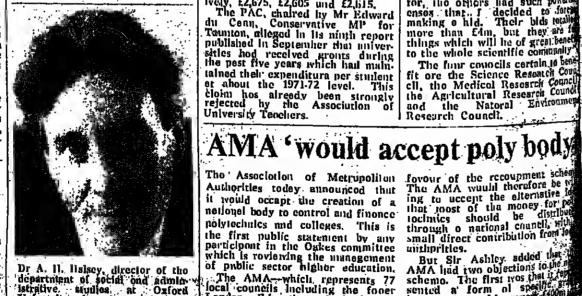
On relevances, the code says that anyone who feels he cannot give a halpful reference should tell the person concerned.

The bulk of the discussion at the three-day conacil sate Heciot-Wett University in Edinburgh will be about pay and 65 of the 160 resolutions are about this topic. A coll for lecturers to withol

exomination results in aupport their psy claim will be resisted the executive who will continue press for political oction. The executive will else oppose mendatory bullets of local essociations over millimit ection, while

be appropriate.

Royal Holdaway Callege, London, has tabled a motion demonding that en adequate moiotenance should be given of right to young people remaining to full-time education ofter the minimum school-leaving oge, especially wonaco and working-cluss young people. The Open Bulversity will coll for an abolition of all student fees including fees charged by itsolf.



Istrative. signies. at Oxford University, has been given e personal chair in social ond administretive aludies, the first of its kind to be created of the university. at Oxford

NEXT WEEK

The ancient Scots universities:

David Walker interviews Robin Blackburn Educational potential of local

trom a particular, set as the presented to a meeting of that full association next week, gives the text of remarks mude on its behalf to the Oekes Committee by Sir Ashley Bramail, leader of the Inoor Landon Education, Authority and Chairman of the Council of Local Education Authorities. In the remarks, Sir Ashloy told the committee that he recognized the committee in the recognized the committee that he recognized the committee in the recognized the committee that he recognized the recognized that he recognized that he recognized the recognized that he recognized that he recognized the recognized that he recognized the recognize

£300,000 budget gives boost to adult literacy campaign

by Maggie Richards

A new lease of life has been given to the Adult Literacy Resource Agency, which is to become a new caopaign, with a badget of L300,000 page (a year.)

A third role will be to come in special projects aimed a badget of the literacy ing local authorities improve the literacy service.

Two thirds of the E300,000 page (will be ollocated to funding the companion) a year.

to fromote good standards in the fiold of literacy clucution, to assist with training, and to produce literacy materials.

Another mojor function will be to channel funds to voluntary organizations. But in her announcement Mrs Williams made it plain that they would normally be expected to look to local sources for financial support in the future.

University income

years of economic recession in Britain.

Hampson, o Conservative spokes-man on education, Mr Oakes, the Minister of Stuto overseeing Higher Education said that the universities'

In a written reply to Dr Keith

has declined

in last five years

caonnaign, with a budget of L30HJH00 a year.

Its future rolo was outlined on Monday in the Hause of Comorons by Mrs Williaors, Secretary of State for Education and Science,
From next March it will become the Adult Literacy Unit, acting as an advisory and consultancy service to lucal educations outhorities and voluntary organizations. It will aim to wromote good standards in the

consider prolonging the agent sioned the new Advisory Council.
Adult and Coordinate Educate. produce o long-term strategy the devolopment of bosic edoque for atlults.

The new unit is to function two years and will be an agent

SSRC foregoes share of £4m science handout

The Sacial Science Research Confeil has not asked for a shall of the extra Lim for science research announced by May Williams, the Secretary of State for Education and Science, to October The Advisory Body for the Research Councils, which recommends how money is to be divided between the five research consolidates expected to finalize distribution of the funds today.

The halk of the maney will gow the Science Rascorch Council, but the Science Rascorch Council, but the SRC will receive on the SRC will receive on the charman, decided not to ask for any. It is the only research council which will not got anything. The commented this veck: "After listening to the cases advanced by the other research councils I continuous to the cases advanced by the other research councils I continuous to the cases advanced by the other research councils I continuous to the cases advanced by the other research councils I continuous to the cases advanced by the other research councils I continuous to the cases advanced by the other research councils I continuous the cases advanced by the other research councils I continuous the cases advanced by the other research councils I continuous the cases advanced by the

Avapage, income from recurrent grant, lucol authority rates and tul-tim fees at 1977-78 price levels had fallen from £2,825 per strulent in 1973-74 to £2,565 in the current aca-demic years. He politud out that lacome per student in the 1973-74 session lad been light becouse there were fewer-students than had been ossumed the other research councils I to when the grant was settled. In the

when the grant was settled. In the following three academic years the income per student was, respectively, £2,675, £2,605 and £2,515, The PAC, chaired by Mr Edward du Cean, Conservative MP for Tounton, alleged in its minth report published in September that universalies had received grants during the pest five years which had maintained their expenditura per student eluled that ollhough we was rejects we could have used the most
for, the orders had such powers
enses that. I decided to fert
making a hid. Their bids totally
more than £4m, but they are to
things which will be of great benefit
to the whole scientific community. the post five years which had mainlained their expenditura per student
et ahout the 1971-72 level. This
cloim hos alreedy been strongly
rejected by the Associution of
University Teochers.

The funr conocils certain is benefit ore the Science Research Council
the Agricultural Research Council
and the Natoral Environment
Research Council.

The Government this week issued figures which invalidate the Public Accounts Committee's controversial claim that the universities' income has not declined in the post fivo

by Judith Judd The Public Accounts Committee of the House of Communs this week to Public Accounts Committee of the House of Commons this week differed his pomroversial claim but the universities' income has not seefact during the past five years. Is stend will raise a soorm in miles railes, which have fiercely sisted the allegation.

By Edward on Committee of hydronic fiercely sisted the allegation. the Oakes committee on the management of higher education in the public sector is still split on the fundamental issue of how outle local government control there should be over palytechnics and trollenes.

Mr Edward the Caun—Public Acousts Committee stands from

December 16, 1977 No 319

MPs repeat

income claim

no drop in

Br Edward du Canu, chairman of the committee, said that further hentgation appeared to support way Grants Commutee on whose marks the PAU's claim was based. halester to Mr Laurle Sapper, peral secretary of the Assortation of the Mr. Conn where to the Conn where to the criticisms levelled at the conditions of the criticisms levelled at the conditions of the criticisms levelled at the conditions of the control of the AUT. The exactation wrote to Mr da Cara in October saying there had been a figure cent rethetion to independ the saying there when the control of the well secretary of the Association with the Committee's plant to call the Control and finance in the criticism seveled at the call the Control of the Control

AMA 'would accept poly body

AMA hid ive objections to the maximum presented an atternative school and the Department of Education of Educ

AUT head urges productivity deal

igher Education

olde justification for pay rises to the private sector, why not for us with our increase in student numbers without the appropriate increases in stoff?"

There were many examples in the private sector of settlements exceeding 10 per cent, often os the private in the arbitration nward to bring them result of spurlous productivity

local control

colleges.

At last week's meeting local amborby representatives on the committee made it clear that they

would not necept Dopartment of Education and Science proposals for the membership of a national backy to cuntrol and finance tho bulk of higher oducation outside the

of polytechnics

Acudemics should receive a productivity deal like many workers in the judvate sector. Dr Cecil Wells, true in its claim of 32 per cent gressileut of the Association of University Teachers said yesterday.

In his opening address to the Aumiles of others, from lorry AUT Cunucil at Heriot-Watt University, Edioburgh, Dr Wells and: "If productivity increases are an accept.

Like in its claim of 32 per cent for the righting of the anomaly and its anomal pay increase. There were examples of others, from lorry drivers to elegymen, who had sity, Edioburgh, Dr Wells and: "If productivity increases are an accept.

Like in its claim of 32 per cent to politic top of the senior top of the senior for the righting of the anomaly and its anomal pay increase. There were end those with the other end of the end those with the other end of the lecturer scale around £1,396.

Dr Wells emphasized, however, that the AUT chaim of 32 per cent.

Like acceptance were productive top of the senior to

Oakes still split on

THE TIMES

SUPPLEMENT

Price 20p

unly envered losses incurred before the introduction of the pay policy. The Covernment must tell the AUT what three able it planted for the righting of the anomaly. "If everyone gets 10 per cent this year and
all get x per cent in subsequent
phases then our anomaly will never
be removed."

Polys forced to comply on

Prlytechnics will be forced to fall into the with the Government restriction in overseos student numbers next year because of the level of Rate Support Grunt settlements to local outhorides.

hy Peter David

Only days before its final meeting the Oakes committee on the management of higher education in the The RSG, amounced lost mooth, less been ogreed on the basis that fureign student totals in local authority-finouced polytechoics and colority-finouced polytechoics and colority-finouced polytechoics. the consulties will be able to linish its work before Christmas as planted. Besides differing over membership of the national body, about the first draft of the fine report discussed last week.

Some of the local outbority manual and a state of the fine report discussed last week.

estimetes." The 3B polytechnics now fece substontial cutbecka in foreign

overseas levels

Edmund Wilson Dennis Welland reviews a new collection of Wilson's letters on literature and politics from the eye of

leges are reduced to the 1975-76 level. The mumbers in higher and further education overall now stond

A letter from the Association of Metropolitan Authorities warns local authorities that mioleters wil seek to structure RSG settlements

scek to structure RSG settlements on the basis that overseas numbered should be kept to 1975-76 levels. It ndus that the object is to secure public examediture reductions.

If the local education authorities choose to edmit more atudents they will have to cover the excess by economies elsewhere or from that rates, the letter claims. A similar warning hea here issued to the county authorities by the Association of County Connells.

But local authorities are now saying they will not stood the cost of financing extra forcige students exceeding the Government guidelines, which were issued in a Department of Education and Science circular in August. One local authority epokesman said: "We have told our polytechnic that if we get less RSG because of this Government assumption and the college has taken on more students then we could not opprove their estimates."

The 3R polytechnics now feee

icb at the LSE in 1969, 10

Don's diary

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granite tradition has not

the First World War to

London Business School

series on management

education Peter David

visits this highly

Robin Blackburn

Robin Blackburn, the

school, 10

Continuing an occasional

regarded graduate business

been shaken by the North

Aberdeen

A former deputy editor of reflects on his new job as City University's communications officer,

For lecturers in the public sector, ite most important national agreements are those negotiated in 1976 unions should be antorced locally. A ruling that the local authority en hours of work. But there hove the nor recent negotiations on essociations ore not employers organizations would prohibit use of active disputes procedures, meter that the local authority organizations would prohibit use of this procedure.

Tom Schuller discusses the struggle to evolve a policy for continuing education in Australia, 11

blis procedure.	TOL COULINAINS carrestion
Unions would then here to recort to enother part of the legislation	in Australia, 11
enabling thom to argue that local branches should enjoy the "general level" of conditions of service offered to comporable employees. But this would be a more clumsy procedure raising difficult questions of definition. Mr Peter Colos, deputy education	
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officer of the ACC, seld this week that he doubted whether an adverse	Noticeboard 8
ruling would affect the 1975 agreement on lecturers hours, which had affectly been used as a model by a majority of local education authorities.	Letters 12
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C.

to teach

more students

hy Judith Judd Individual lecturers are

ing noise students, according to figures released by the University Grunts Committee.

In 1975 there were 31,381 m.

in 1975 mere were 41,331 u.g. in universities, an increase of 60, 0.1 per cent on the previous ten. This was very much smaller bit the increases for seven present years which all exceeded 2 per cent.

time students went up from 250% to 261,258.

In most subjects the number of undergraduates went up, though there was a slight decrease in each cering, mathematics and physic.

Students reading arts subjective for each ond those reasies.

Students reading arts subjection by 6.8 per cent and those reading science by 2.2 per cent. The percentage reading srience has governed from \$5.8 per cent to \$26 pt cent since 1971.

The rate of increase of the number of women students between 1970 and 1978 tyas almost doubt that of the student had not the student had no a student between 1970 and 1978 tyas almost doubt that of the student had no a student between 1970 and 1978 tyas almost doubt that of the student had not the stud

by Simm Midgley
A significant swing towards the study of engineering subjects and away from the carts, science and social sciences to British universities is confirmed by figures released last week by the University of Asion in Birmingham.

Asion, the country's biggest technological university, has revealed that its applications for 1977-78 have risen by 40 per cent over

have risen by 40 per cent over the previous year. And 45 per cent of epplicants favour disciplines surh as civil, mechanical, chemical and

as civil, incchanced, chemics, and electrical engineering.

The university has recorded a heavy concentration of first choico applications for "hard" ongineer-

Another noticeable change in study patterns is an incresse in numbers choosing management and

engineering graduates continues to exceed the numbers available. The demand for olectronic and produc-tion engineers is particularly high ",

"I believe that universities offer-ing sandwich courses sperializing in megratod, industrially-related train-ing have the advantage when in ing have the advantage when it romes to graduate photenient. In contrast, orts degrees no longer urcs follow the recent publication in the Finoncial Times of e tuble showing the employment pattern of graduates from each university. Aston has fewer unemployed graduates from each university, with its emphasis on first degree, four-year engineering sandwich courses, might automatically be expected to flourish in Birotingham, the heart of Britein's automotive industry.

He points to Aston's greatly horeased intake thering a period when higher eduration has breen oublected to the most swingcing public expenditure cutbacks ever.

Cool reception for proposed adult literacy unit

by Maggie Richards

with a cool reception from two major organizations in the field.

The establishment of the new unit, announced last woek by Mrs Williams, Secretary of State for Education and Scionce, bes been welcomed, but concorn hes been expressed obout its lifespan and sources of finance for support.

voluntary organizationo,
In her ennouncement Mrs Wil-

lam mede it clear that voluntary organizations would normally be expected to look to local sources for their revenue. She also decreed

the the new unit would have a life of only two years, anding on March 31, 1980.

Criticism of this aspect comes from the British Association of Settlements, which was instrumental in interior in the deliverage.

by Maggie Richards
Plans for the creetion of a naw national adult lineracy unit heve mat be very difficult to concolve, pro-

responsibilities.

From next March, when the present Adult Literacy Recource Agency is wound up, the now unit will take over coordination of the literacy campaign with e budget of About £100,000 will be open on providing a continuing national focus for adult literacy. The remainder rvill be shared between voluntary organizations.

Sources of finance for support.

Concern ebout the fate of the valuntary agencies has also been expressed by the National Predratation of Voluntary Literacy Schemoo. If the bulk of the £200,000 allocated for voluntary organizations and special projects was awarded to the voluntary sector it would be sufficient to maintain existing ochemes, according to the federation's cheirmen Mr Alau Tuckett. cated for voluntary organizations and special projects was awarded to the voluntary sector it would be sufficient to maintain existing ochemes, according to the federation's cheirmen Mr Alan Tuckett. But if most of the money was reserved for opeciel projects, thu result for the voluntary acctor world be "catastrophic".

The federation is now seeking discussions with ropresentatives of the Department of Education, the National Institute of Adult Education and the Adult Literacy Resource Agency about allocation of money to the voluntary sector.

Mrs Williams has already commissioned the new Advisory Council for Adult end Continuing Educa-Describing the two yeer lifespan as o "uonsense", the BAS otateo:
"Not only will such a short period deter expenienced practitioners in missioned too new Advisory Councillo for Adult end Continuing Education to produce a long-term strategy for the dovelopment of basic education for adults.

Association of Principles of Coliegas, 10ld a press reception on Menday: "The polytechnics dramage and not just to trade unjoyates." Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the obtain sumano campage and not just to trade unjoyates. Cap; a special grant to cover the cover the cover the cap; and not into trade unjoyates. Cap; a special grant to cover the c

"The demand from ludustry for

from the collection of Baron van Lyndon. The collection includes more than 100 posters designed by artists including Picasoo, Miro, Dali, Hockney and Peolozzi. This one by Ronold Scarle, promoted his exhibition of the Galerie Lo Taille Douco, 90 Avenue Louise, Brusselo, in 1968.

Experien Ronald Searle

stuck on trade union courses

Fircroft still

by Peter Davil

A crucial event for the future of Percroft College at Blyminghom took place this week when the new college governors met for the first of time on Wednesday. Representatives from the Department of Education and Science and the Trades Union Congress also attended the meeting. They were deliberating on the finance role of the college, closed two years ago after audent unrest. A DES inquiry report later recommended that the principel and four tutors should be dismissed. The trustees sacked the tutors but restricted as wariop.

The molu attainbling block for the new governors appears to be the

The molu atumbling block for that new governors appears to be the possible domination of the curriculum hy trade union studies.

The TUC has proposed a one-year residential course at Fircroft, based on the previous liberal studies course. But it also wants to introduce a day release course for shoustewards and a sandwich course spread over three years.

for the handicapped by Patricia Sautinelli

Bureau urges national policy

A new policy to improve opportuni-ties for handiroppod students in further, higher and minit education was put forward last week at Westminster by the Netional Burcon for Bendenuped Students.

The bureau wants the Governmont to agree to a untional nolicy on post school education and praining for headcapped people. It feels without e clearly stated commitment on the part of national suil local government their aducation and subconnent annihorment praspects will continue to suffer.

Commenting on the statomeut, Mr Douls Coo, founder member and chelrmon of the NBHS said: "We commend this statoment to our culcommend this statement to our culleagues in education and to all those in central and local government and in the voluntary bodies who want to widen post school educational opportunities for young neopla".

He said many improvements had taken place but much still needed to be done. He believed that this policy statement would give a modest load.

"One of the burcou's major recommondations to for a substantial improvement in grants to custive that students are not suffering financial bardship or prevented from taking up post-school education or training.

It believes that all students should

costs of aids, equipment and personal assistance required to imber their studies, all of these in the regularly reviewed in relation to the cust of living.

Tho bureau urges e major exter sion of further education course for the lotelicetually less able and mentally handicapped people, its need for all Institutions of further and higher oducation to play some port in educoting the handicapped. It also recommends that the institutions should develop as admissions policy and a coroors adver-sorvice in lino with the requirements of the handicapped as set

The bureau believes, that all teachers should be given some training and experience of tearblus the handlempped and that Improved

career opportunities and remanera-tion should be provided for teachers and lecturers who specialize in working with handlespped students.

it urges a review of both the in-ternal and unitional examination policy as well as research to pro-vide standardized procedures and it wants coordination of various bodies to ensure that education and usin-ling can be as effective as possible in helping handicopped people to obtain suitable employments.

by the measure of protection which the approved orrangemento confer."

They were devised bocouse of the confict between the Race Relations Act 1976 and the Covarantem's wish to reduce the number of averseus audents in 1978 to 1975/76 lavels. To protect universities from prosecution under the Act for establishing a quota for overseus students, the Coverance approved special arrangements. Mongresseuts. trangements.

The CVCP newsletter points out that if n university exceeds the approved number of students by only one, the arrungements do not have the Secretary of Stote's approval and the university will have operated n quoto system in breach of the law. is hetter accommudation and said It wants to see a major las ment in adult education facility initiated in accordance with the

At present universities to not have quotas far overseas otudents and allow upen competition for places where they do impose a limit, the proportion of overseas students a British universities has gone up by 12 per cout in the past six years and now stands ut 34,000. In 1975-76 there were 31,500.

The universities' opposition to your will not necessarily mean

Mones will not necessarily mean be increases in the number of over-sess students admitted.

The CVCP expects competition

almost 20 per cent rise Lecturer 2 scales the association is promote staff on the maximon Li

with non-advanced further edura-

association is calling for the im-

rutes, which have been agreed in

prinriple. Events of recent years inve shown beyond doubt the loadequacy of a regional systom, it

It also wants an agreement sulary arrongements for rolleg librarians and rasearch staff. Nationally agreed stales based on

points within the first two lecturer scales should be introduced for re-

For part-thor lecturers

man work.

Lecturers have FE lecturers to claim

A pay claim for salary intreases of about 19.5 per cent is in he before the health of further reducanon lecturers by the National II also wants to eliminate distinc-Association of Teachers in Further and Higher Education to the Hurn-ban Forther Education Committee.

The NATFIE, which represents 10,800 lecturers, is also steking a 10,800 lecturers, is also a demand for more sensor posts in 10,800 lecturers and 10,800 lecturers and 10,800 lecturers are also a 10,800 lecturers and 10,800 lecturers are also a 10,800 lecturers are

THE TIMES HIGHER EBUCATION SUPPRIMISET 16.12.77

My arrangements. A special meeting of the assuriagon's national rouncil decidral to

years which all exceeded 2 per can.
Over the same period the comber of students in universities we steadily. The average cannot per centuge increase in the total number between 1970 and 1975 was 28 per cent. In 1975 the number of the time students went up from 25035. go shead with the claim, which will seek ultimate restoration of the alue of salaries established in 1975, following the report of the Houghton cummittee on tearliers' The NATFILE says the rlaim rep-

The NATFIIE says the rlaim represents an increase of 10 per remposers are for the rise in the self of living between April 1977 and April 1978, and an increase of 95 per cent to take acrount of ground lost between 1975 and 1977.

As a first step towards the says.

Ignore overseas

tells universities

Universities have been advised to

The newsietter says university ad-

quotas CVCP

by Judith Juild

than of the student body us a whole In 1975 they represented one in three of all students, though one one in four of all postgraduses. Pronotion prospers for women in higher education are poor. Water a total of 3,409 professors in England and Wales only 76 are women among the 6,159 readers and senior locations.

Statistics of Education Volume 6 1978 Universities, available from HMSO price £8.75.

Tnylor, the institute's illrcctor. Public sector colleges form pressure group for debate

lıy Simon Midgley

A pressure group has brea formed to represent the 60 colleges and institutes in the national debate on ignore the three miners new mangements for restricting the peater of overseas students. In its the future unmagement end ron-trol of public sector higher educa-

lates newsletter the Committee of ViceChanrellors and Principals says Principals and directors of colthat the arrangements are unwork-side and tells universities to stick to their present non-discriminatory leges or institutes, which have are in the princess of developing algorificant and varied involvement in the national provision of advanced further education, have established the Standing Conference of Principals and Directors of Colleges and Institutes in Higher Education. The newsletter says university ud-missions practitures canoon be ap-piled with the degree of precision impled in the arrungements. "Thu fundamental reservations which universites have almut a quota sys-tem are not likely to be dispelled by the measure of protection which the autrowed presumented confer."

It will be a farum for discussion and action on matters of common mon laterests of the legiterions from which the membership is

Although only formulty established at a meeting in Lundon this month, earlier this year soveral preputatory incettings were held and in puritory incettings were need and in June a steering committee was created to submit evidence to the Oakes committee, currently reviewing the management and control of higher education in the public

sector. One specific olm of the confarence is to ensure that if a untional built is established to control higher education in the public sector the non-polytechnic institutions are fully

The conference is determined that The conference is intermined that the non-polytechule institutions are reprusented in the new body because it wishes to bring every pressure at its disposal to mulutain the present vulume and shore of higher eduration courses in these institutions, and to sustain those courses in these courses in these courses in the second of the state of t

alongside further education pru-vision where this has been the Mr Nell Merritt, sceretary of the standing conference and the dirac-tor of Ealing College of Higher Education, said this week that the conference was concerned to ensure that the public sector share of the

conference was chiefered in classificational provision was not prejudiced by the luck of a united volca spoaking for it es a whola.

The chairmen of the standing conference is Mr John Barnett, principal of the Colloge of Ripon and York 5t John and the exerulive committee includes: the Rov D. A. Belrne, Si Mary's College, Twickenham; Dr D. Brallsford, North Wnreestorshire College; Dr E. Breut, Soud Glamorgan lastitute of Higher Education; Mr B. S. Canc, City of Liverpool College of Higher Education; Mr B. S. Canc, City of Liverpool College of Higher Education; Mr D. G. Lyne, Bedford College of Higher Education; Dr J. May, Derby Lonsdolo College; Mr E. E. Rolituson, Bradford College of Higher Education; Mr J. M. Stoddort, Hudi Collogo, of Higher Education; mr Mr J. M. Stoddort, Hudi Collogo, of Higher Education; md Mr D. Willioms, Gloucestershire Institute of Higher Education,

Oxford separates itself from city colleges

Oxford University this week took the final step to separate itself from the city's cullrages of education. On Tuesday Congregation agreed to u statute which abolishes the delegacy for educational studies and re-places it by a rounnittee for educaional studies and a buard of studirs n education.

The Queen Mother, as chancellor of the University of Landan, after formally apening the new multi-million pound home of the Institute of Education last week. On the left is Mr William

The new arrangements will take educational studies in Exford firmly into the university. The delegacy had about 40 members, including rollege of eduration principals, edu-ration officers and tearher representatives, it developed of the time when the university was an area training organization which was acquiring walldating functions in

the collegeo. The new committee will be much smaller and will draw its membership entirely from the university. from the department of educations

The committee will admit students and recommend people for higher dogrees. In other words, it will have most of the powers of e feenlty boord.

Dr Hinry Judgo, director of the department of educational studies, said this week: "We feel it is time to give education a rolo lu the university which is not one of autonomy. We are not saying it needs to be a aeperate faculty."

bined effects of inflation and devaluation. Nearly 70 per composition and devaluation. Nearly 70 per composition of inflation and devaluation. Nearly 70 per composition. Nearly 70 per composition. Nearly 70 per composition of inflation and devaluation. Nearly 70 per composition. Nearly 70 per

Universities are major users of **British Library**

lw Patricia Sautinelli

United Kingdom academir libraries, in particular thuse in universities, nre the major users of the British Library, results of an enalysis in the rerently published IIL annual report indicate,

The analysis envered 80,000 interlending transactions dealt with by the BL lending division during February. Academic librorles accounted for 38 per cent of all home requests, followed by special librarles.

The report elso shows United The report elso shows United Kingdom requests have increosed by 7 per cent to 2,540,000. In addition the division has had increased success in dealing with demand from overseas. This had gona up by 26 per cent over the previous year—377,000 requests rereived from 97 countries—the mejority of which were oatisfied.

This continued increase is thought

This continued increase is though This continued increase is thought to be because overseas librorlaus find it quicker to borrow fram Boston Spa then from their own national systems. In the year cuded Merch 1977, 353 libraries in 53 countries had used the overseas service, an increase of 37 per cent over

tha previous yeer. Flowever, success at home and oversous has led to a big rise in the cost of buying books. This rose to £1.5m, mainly bareuse of the combined effects of inflation and devalu-

depertment in research.

The university's obligation to the colleges will continue for a limited period through the new Board of Studies which will volldate the BEd for savaral years. However, the Oxford BEd is expected to diseppear eventually.

give intense freatment to the fore and valuable items. Coutinued problems are also being experienced by the division in accommodating readers, stuff and books. This is unlikely to be resolved until the new building in Somoro Town, Euston, is ready. At present it is still in the planning stage.

Cg ' The Department of Education and Science was criticized this wock for damaging the work of further education work.

Dr A. G. Feace, problem of the Association of Principole of Colleges, told a press reception on the country's economy and industrials well-being. "The Department of the dovelopment of basic education work. The Department of Education and Science was criticized this wock for damaging the work of further education work.

Dr A. G. Feace, problem of the Association of Principole of Colleges, told a press reception on the country's economy and industrials well-being." Dr Poace blaced the DES for creating unascessary divisions with the colleges of the polytechnics them allows the polytechnics them are considered by the Old Firerofters with a students should give a substantial many improvements to take not course the provision of the provision of the proposals of o meeting last month. A DES official emphasized the tho liheral studies course could not be seen meraly as a face-seving oddition to trade noion studies.

This is also the polity being adopted by the Old Firerofters advenced by the Old Firerofters and some further education work, but often even more vital in the country's economy and Industrial well-being." Dr Poace blaced the DES for creating unascessary divisions with the course with the provision of the proposals of o meeting last the two liheral studies course could not be seen meraly as a face-seving oddition to trade noion studies.

This is also the policy being adopted by the Old Firerofters and not just to a wido range of people, and not just to trade unious.

The blace years.

The DES, which provides more taken place to take notice years.

The DES, which provides more taken colleges course and some colleges of the burcour's modest load.

One of the burcour's modest load.

The said many improvement taken colleges to meeting last taken colleges course and some colleges of the burcour's modest load.

The blace years.

The DES, which provides more taken colleges to meeting last taken college

learn in the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and much will depend on how far this believe of the next few years and years. He few years and few years and few years and ye

Government told to encourage computer learning at home

The Government should seriously consider funding computer-ossisted und computer-managed learning for home based illstance teaching in the next stage of CAL developments in the 1980s, Mr Richard illuquer advocates in his final report as directur of the National Development Programme in Computer and the present interest. The Civer that the present interest a 70 por cent rote of "institutionalical consideration of the Computer Boord. This would enable limited finances to go further, would reduce the likelihood of ad loc provision and would enable limited finances to go further, would reduce the likelihood of ad loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable educetion to speak to computer manufecturers with one voice. In his raport, to be published on flyeyear national programme with the present line and the likelihood of all loc provision and would enable educetion to speak to computer manufecturers with one voice. In his raport, to be published on flyeyear national programme with the present line and the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finances to go further, would reduce the likelihood of all loc provision and would enable limited finance

North American news_

from Clive Cookson

North America correspondent

Many of America's private colicges

through the 1980e and will need

peressed oupport both from the

federal government and from stots

legislatures, according to the latest

report from the Carneglo Council

oo Policy Studies in Higher Educa-

The report, entitled The States

get worse during the expected 25 per cent fall in the college-sge

About a quarrer of the 1,600 ntiv-

me colleges and universities are sid to be in "serious trouble" fin-

indelly, though the report does set explain just what is mount by serious". Many others "face an

becare and uncertain future".

Reserve funds are often low, some

tolleges orc lieuvily in debt, and

mon heve already takon the enoiest

problems in the future.

of them a severe blow.

undycraitics will remain in a

Bleak future forecast

for private sector

Cause of 18th century population boom sought

Detailed research into the causeo of belgined research that the cluses of the unprecedented population boom in eighteenth-century England in being conducted at Lancaster University by the Ccutre for North-West Regional Studies.

The centre's director, Dr John Marchall, and a research fellow, Dr Roger Finlay, have received a £10,400 Social Science Research

The technique is celled family recognition and involves a very de-tailed study of population move-ment in Cumbris between 1650 and 1750. We believe that the ex-planations for this phenomenon of pianoidis for this phedonicidi of o more likely to emerge through iletailed examination of the wealth oud behaviour of families in ilmited oreas rather than a study of broader population, trends", Dr. Marshall

He and Dr Finlay latend to piece ogether information about every only in the parishes of Hawkshead and Cartnel during the 100-year period. Later the project will extend to Kendal to compare popu-lation growth in industrial and rural settlings and calculate the ex-tant of migration from the country to the town during the period to the town during the period.

"Up to now family reconstitu-tion has simply treated individual membors of the local population es units without trying to identify theat in any detail", Dr Marshall said. "The Lancaster project will make a significant advance by atratifying local people in terms of wealth occupation ages at marriage

built up o bank of information from parish registers, wills and probete inventories. "All these contain valuable clineo about the wealth of The centre's director, Dr John Marchall, and a research fellow, Dr Roger Finlay, have received a £10,400 Social Science Research Council grant to use on unusual research technique in on effort to decide whether there is a link between levels of westh and population growth.

Ordinary people. As well as reveal-ing it is inglised and died and the size of families, the documents also show, for example, which families had servants, acquired sistus symbols such os clocks, and how unuch they could afford to pay for funerals.", Dr Finley explained.

Dr Marshall pointed out that the study would reveal the degree of comfort enjoyed by ordinary people. The seventeouth contury, he said, stantially strengthened and exten-ded. This may have had the effect of reducing common aliments and infinit morrality by offering greater protection against the cloments.

The project liss aiready revealed The project has already revealed that the populations of the two purishes were otable until they began to grow in 1700. In Hawksheed, for example, couples tended to marry in their late 200 which significantly reduced the period of child-beoring. The average size of familiary transfer in the strength of the period of child-beoring.

Cines about population growth nud family movement will olso be gleaned by analysing the dioribution of surnames. "Names such as Braidiwalte, Rigge, Satternhwaite, libling and Barrays are new light. ilolmo and Barrow are peculiar tu the area. We shall be counting tha number of times they uppear in the register and looking for their appearance in Kandal. This will give us valuable information about wealth, occupation, ages at marriage migration from country to town and death, number of oblidren and Dr Marshall said.

Questionnaires sent to tutors for adult literacy project

Questionnaires have been distributed to adult literacy tutors in 44 local education authorities as the Hrst phose of a research project simed of identifying the problems and training needs of adult literacy

The project, sponsored by the Department of Education and Science, is being conducted over

One of the mole objectives is to establish the level of skill and attaloment amongst adult students in the carry stages of tuition end liscover the most common forms iveakness and difficulty. Another to assess the degree of progress d improvoment in the course of

A representative sample of local politon districts has been selected cetionsly subnormal, and some will and voluntary schemes have been be immigrants.

The team will extempt to place of considerable economic, environmentally in the control of c

·10-14 January

5-9 June Autumn:

questionnaire to obtain background detsde about the student and the form of tuition. It takes in diagnostic testing of present abilities in fields such as spelling, punctuation itums as adverrisoments, publi-notices and postal orders.

Analysis of the replies will take place in Januery and February, and resulto era expected at the begin-ming of March.

Special cere has been taken to provide a detailed explanation of the project to the tutors, meny of whom are working on o 1-1 basis with their students. Detailed notes eccompany the questionnaires, and coordinating tutors heve besn eppointed in each area to explain the alms of the research fully to both tutors and students.

One of the problems facing the research team has been the wide diversity of students—some will be slow learners, others may be edu-

od anonymity. and will be and to design meterial to continue the research in specific terms for

Arts Council OF GREAT BRITAIN Three short courses for

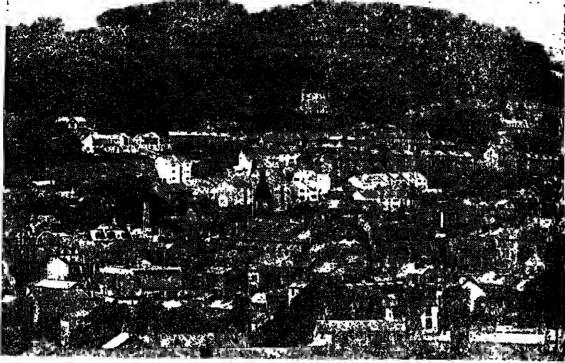
Visual Art Administrators Contamporary Art 1978

Some Administrative Problems

Some Sources of Information Brochures and application forms available from The Training Officer, 105 Piccadilly, London WIV DAU

Some Technical Problems

guaranteed anonymity. the research
The first phase involves using the each group.



Kendal: 100 years of growth and migration

Hull tries to find trigger for plant antibodies

by Simon Midgley

by Simon Midgley

The possibility of protecting important crop plants by "switching-on" their own defensive mechanisms could be brought nearer by work currently being conducient of Hull University. Dr David Smith end Mr Andrew Murris of the department of plant blalogy are investigating with the nid of n £2,694 grant from the Agriculturul Research Council.

A number of plant species, including several agriculturally important oneo, produce antiblotice (phytoolexins) after infection by micro-organisms. This type of response to presumed to represent part of n plant's natural resistance to disease.

Mony of these kinds of ontibinties

Mony of these kinds of entibinties have been isoloted and their chemical structures determined. However, compornively little is known about what precisely stimulates the occumulation of phytoalexins by in-

occumulation of phytoalexins by infected planto.

Recently it has been suggested that the invading micro-organisms may produce and relessa specific chemics or crognised by the plant end which activate defensive reections, including phytoelexin accumulation. In the plent blology department one such attimuletory compound has been pertially isoleted from a fungus pathogenic to besas.

besas.

The great from the ARC should expension of allow confirmation end expansion of these inities observations. In tha long term it may be possible to ertificially stimulate a plant's natural defensiva procedures and so make the little one more realization. e heelthy one more reclotant to

Cost of VAT to traders for study

tigsto the cost of VAT to ragistered tradere.

Professor Cedric Sendford, director of the Ceotre, Is beading a team which will question 300 businessmen in the couth west about how much time end money they spend on complying with VAT regulstions.

The team hopes to discover which traders have the greatest difficulty with VAT, the greatest difficulty with VAT, the types of cost incurred, and whether the VAT system actually benefits businesses in cartain ways.

£48,000 that could make flood and famine less disastrous

Buth University is to start research Buth University is to start research into miniguting the offects of natural disastars. The Leverhuline Trust Fund hos awarded the university's centre for development studies £48,000 to study methods of wialysing ond assessing earthquickes, floods and famino in the hope of reducing their consequences.

The research will concentrate unfuly on Third World countries and earthquakes and should make it posoible for countries to save lives

by preparation.

It will be carried out for three years by Mr. lames Leivis, a visiting fellow in the centre who has been sonlor research fellow und director of Braifurn's Dionster Research Unit since 1973.

Dr Leslie Pulmier, who is director of the Beth contro, said: "(three the malhodology, has been urrived at it should be passible to carry out pre-diestor planning and in the ong run this should save lives. "The reeson Third World coun-

tries are so vulnerable to these natural phenomena has as much to do with the state of their social

for Sunderland

with the phenomeno thouselves."

The researchers will travel widely

By the time the research is fluished it should be possible to decide what factors make some countries more enhancible to natural disasters than others. It should ulsa he possible to suggest what resources are needed to reduce the problem.

he published and sent to government and voluntary organization engagerl in the study of disasters. Bath has also received more the £100,000 to investigate ways Improving engine-transmission sys-toms in heavy vehicles.

The hulk of the money—£81,500
—which goes to the university's school of engineering is from the Department of industry and the Holset Engineering Company.

The council regards the private sector as an important national user because of its independence of government, its diversity, Its The research will try to improve

raditions, its "devotion to liberal learning" (95 per cent of liberal arts colleges ara private), its attenand to the Individual student and hs standards of academic freedom. The American Association of University Professors censured 72 Public institutions as ngainst 28 Private Institutions between 1966

Payers almost \$5,000m a year—the San Frencisco, Celifornie 94111.

cost to the steres of absorbing its students in unblic institutions. Although just over half the 3,070 colleges end universities lu the Unltcd States are private, they take only 21 per cent of the constry's 11m students because of their nuch smolier average size.

The private sector olresdy teceiveo o considerable quantity of public money end 40 states now have programmes for direct or indirect support for their private institutions. The states' expenditure averages out at \$290 per student— compared to \$2,660 per student for public institutions.

and Private Higher Education; Problems and Policies in a New The federal government, however The federal government, however, spends 50 per cent more per student on private institutions (\$1,670) than on public oneo (\$1,160). And when the private sector's larger tax exemptions ore included, total public support works out et \$3,280 per student in private colleges and universities and \$4,580 in the public sector. As the report notes, this is a smaller gap than is commonly supposed. Es Ands that the financial skusion of private institutions appears to be getting no worse after the Hicult period of the late 1960s ad early 1970o, when inflation. ecesion and the expension of lowout public universities deelt many But the problemo at ludividual institutiono vary enormouoly, the countil reports, and are likely to

Nevertheless, Carnegis relterstee, public support aust increese further os the private sector's financial problems grow. "The question is not whether more assistance will be needed and given, but how it will be given and in what amounts. It is easy to "sava" the private elector one way or another. It is not so easy to do so while preserving for it the independance that hes meant so another it, to public higher education and to American society". cation and to American society".

The council urges the federal government to expend its student eid programmed and says needbased thirden gronts to students should be the primary vehicle for channeling state funds to private but it trions

sen-cutting costs-the council The idea of income tax credito or deductions to offset part of tuition costs 4s currently picking up increasing publical fovour. But the report sas it will therefore be more difficuk for both public and private instimios in cape with financial rojects it os a solution becausu auch schemeo "in their most likoly forms are clearly regressivo—doing more for lilo rich than for the The report says the types of Institotion in the mass valuerable nosides are: those that have rancontro-

In the long run, the council wants to see American higher education move further towards a "national murhet-place" system through greater portoblity of student grante between states and "a mora evenhanded approach to competition hetween public and private sectors". ted most heavily on Teachers' educa-dos, very small liberal orts colleges with restricted courses, often situaed in depopulating rural areas and some urban comprehensivo culleges and universities that hove little han higher fees to distinguish them from their public counterparts.

In Its ultimate form such a system In its ultimate form ouch a cystem would make vouchers ovoliable to students to be taken onywhere they wished. There would be no support of institutions as such end thay would in offect oil become arrivete.

But at the senie time the report coils for states to plan their education systems es o whole, with the full involvement of private institutions. "We believe that higher education has entered a new stage of development in which states should and will increosingly look to their total resources for higher education, both urivate and public, and will strive for the most effective joint use of such resources."

Dr Verne Stadtman, who has been associate divector of the council and its predecasor, the Carnegle Commission on Higher Education since 1969, said the lost two years of the Cernegis Council would be a period of very intense work.

Forthcoming studies include a series on the college curriculum, youth policies, vocational education and others whose outlines have not yet been fixed. One possibility under discussion is some sort of signing-off document, drewing togethar conclusions from the 100-plus reports and studies produced by the Carnegie Commission and Council since the former was sat up by Dr Kerr in 1967.

American higher education will

The number of freshmen eotoring inversities and colleges in the blied States this cummn was 1.4 per cent down on last year, but learning and interesting the entire of the country of the

Carnegie to be wound up in 1979

The Carnegie Council on Policy Studies in Higher Education will be wound up when its founder and chairman, Dr Clark Kerr, retires at the end of 1979 at the uge of 68.

The decision was smooneed last week by the Board of the Council's parent body, the Carnegie Frontation for the Advancement of Teaching.

s sweetched for its 15 or so full time staff and the thousands of

is sweetcued for its 15 or so fulltime staff and the thousands of
American educationists who contributed to or benefited from its studies, by a parallel announcement
that the Carnegie Foundation itself
is to take over the concell's role so
an independent centre for policy
reviaw in higher education.

Mr Alsn Pifer, President of the
Foundation, said that his would
rotire at the same time as Dr Kerr.
In their place a new full-time president will be appointed who will
combine Mr Pifer's administrative
responsibilities end Dr Kerr's prograntantic responsibilities.

The new person, who is expected
to be chosen by mid-1979, will have
a staff similar in size to Dr Kerr'o
present establishment at Berkeley,
Colifornia. But, without a separate
council for policy studies, he or
sba will work directly with the
trustees of the foundation and with
outside experts. Most of the income from the foundation's \$22m
endowment will continue to be used
to support the higher education
policy mission.

Dr Verne Stadtman, who hes been
associate director of the council and
its predecasor the Carnegie Com-

Kerr in 1967.
American higher education will be looking for someone of high statura to revioce Dr Kerr, who joined Carnegle after six years as Chanceltor of the University of Callfornia of Berkaley and class as President of the University of Callfornia for the Uni



Clork Kerr : moving spirit behind Carnegie.

California medical school aid disputes go to court

from our awn correspondent

WASHINGTON Two important lawsnits before the courts in Californio ere expected to clerify the relationship between the state government and Culifor-

The controversy, like so many ia the United States recently, involves medical schools. The University of Southern California (USC) and State of California (USC) and State of California for \$1,087,000 and \$449,000 respectively, which they say they are owed in cepitation support after increasing their intoke of medical students.

Stanford claims the otate contracted to pay up to \$12,000 per student emolied above the medical school of the officers of the public student emolied above the medical school of the officers of the public schools.

Stanford cisims the state contracted to pay up to \$12,000 per student enrolled above the medical school's 1970-71 lunake. The etale's precise contribution was to be deter-mined efter taking foderol subsidies Into account, and the university says
It should have been poid \$10,200
per extro student taken on.
The Colifornia legislature set up

The Colifornia legislature set up the reimbursement agreement to get existing modical schools to take more students. This was thought to be far chosper than the elternative policy of building a new state school of an estimated cost of an least \$400m.

The state duly paid Stsnford for Increasing Its medical enrolment over the 1970-71 base year by 35 students in 1973-74 and 26 in 1974-75. But when the university claimed for 44 extra students in 1975-76, Csliforala refused to contributa

anyming.
Similarly, USC was poid for expending its medical school from 343 in the base year to 379 in the first contract year and 409 in the eccond year—but not for reaching 447 in 1975-76, the third year.
"In addition USC has already enrolled additional medical students

New dean for

Compromise on 'foreigners' black campus

The Senate and House of Representatives have sgreed on a compromise version of the controversial lew requiring United Stetes medical schools to accept students transferring from foreign schools (THES November 18).

Tha most importent concession to the medical schools, inany of which said they would defy the law as it was passed last yeer end thus loos federal subsidies aversging \$1,400 a saudent, is to allow them to use their own admissions cateria.

Previously they were required to take epplicants who passed on National Board of Medical Exeminate test.

Americo's is sding black law school, at Howerd Univarsity in Weshington, has sppoluted a distinguished formet civil rights lawyer to put of the crioes thet have ploqued it out of the crioes thet have ploqued it out of the crioes that hav

sitico niav even have to repay to tha stata tha money they did receive for 1973-74 and 1974-75. It may be at leost 18 months before the issue lo eattled by the

and expended large sums in reliance

upon receipt of the contract pay-nears for the fourth and fifth con-

tract years", the university's peri-tion to the Suprems Court of Culi-

for the third contract year (\$1,087,000) needed intractiately,

schools".
The universities say they expan

ded their medical schools under bona fide contracts serving important public purposes, "Support" from public funds is quite different from such contracts for services ren-

The constitutional unestion about

tato payments to private institu-tions was not cashed until April, 1975, when Colifornia's Attorucy-General soid the steto could not give monay to the medical school at Loma Linda University because it

was run by the Seventh Day Adventist Church and was not publicly controlled. His opinion cited a section of the Callfornia constitution

which covers all private institutions, not just those with church ties. Mr Cory said he would like to

iramatics lly.
Now its graduates show poor average performence in state bar exeminetious and roo 38 faculty

librate test.

Each school will have to increes ito anrolmant by 5 per cent for ono year only, 1978/79, by eccepting so third-year students United States claizens who bave studied medicine abroad for two years.

Feffure to comply will mean the loss of three years' federal subsidies. Thera is supected to be a pool of around 2,000 applicants for the 800 pieces creeted.

The Association of American Medical Colleges said member schools might not decide until midjanary whether to comply with this new law.

Survey seeks to measure work

5 C

The Cantre for Fiscal Studies at Beth University has received e grant of £11,200 from the Sociel Science Research Council to investigate the cost of VAT to registered traders.

turhochargers so that lorries have better acceleration, climb billo mors essily, hore fewer gesto. See-through engine | 3-D television could

Sunderland Polytechnic resesrchers A smell team of engineers ond A smell team or engineers one scientiets is to produce a perspex scala model of part of a movine engine which will be used to observe the oll film battycen the engine cylinder walle and the pision. The work will be funded by a £20,473 Science Research Council

When the film is clowed down a close examination of the oll distri-bution is fociliteted and, bosed upon the findings, the oll injection systems can be eveluated.

A measuring technique uoing Kanon light is to be doveloped. This will allow the actual oil film thickness to be measured while the engine model is running.

Sunderlend Polytechnic end Durbam University ere now successfully running a pertrime MSc course in this erea of research.

use one transmitter by Petricia Santinelli

Three-dimensional or stereoscopi Three-dimensional or stereoscopic tolevision may be the next step forward in the development of television technology, now that colour is well established. Professor David Bell, of the department of electronic engineering at Hull University, believes that such a system could be developed. He has been ewarded electronic from the Science assembly

£20,473 Scienca Research Council grant, the polytechnic's largest ever single research grent, and will be conducted jointly by polytechnic reopearchers and a local engineering firm.

It is hoped to film the oll between the engine cylinder realism has said. The said. The birt they have not the piston under ultraviolet light using a high speed camera operating at 10,000 frames par second.

When the film is slowed down a certain the between the search is possible Council to investigate the council to investigate the possible Council to investigate the council to investigate the possible Council to investigate the council to inve

ceivers. But the shortage

vision channels illscouraged the use of two channels for one programme and the need for two complete receivers would discourage the private receivers. viewer.
The SRC grant will be used to investigate a method of transmitting a starco eigual over a single transmitting channel sod, therefore using a single receiver. The methods being axamined arose from discussion between the electronic discussion between the electronic confessions of the single single statement and the

First-year enrolments fall

Campus books ban under fire

Students face

etatement by Senor Cesar Uzcanga, Assietant Secretory of Education, who worned that "within three years we will face a situation that will be unreceble as far as subsidizing of universities is concerned".

Proposale for more realistic tui-tion levele for universities have been made in past administratione and sholved es a result of pressures by student, only pressures

and showed es a result of pressures by student end parent-teacher organizations. But with Mexico continuing to go through e difficult economic period, the atete is alroedy finding it difficult to mein-

Sr Uzcengo said that the preesing need was for funds for primary end secondary education. He pointed out

her Mexico's outley for secondary

higher fees

from Emil Znbryn

Mexico

CAPE TOWN
In cummon with most other forms of liberty which have safered under the present guyernment, the term "academic freedom" has become something of a telle phrase in Somb Africa.

Often, during the post 18 years.

Often, during the post 18 years.

way the APC is a personal guvernment. The present guvernment cannot freedom? It is not the present guvernment cannot and to its the processor Nicolaysen.

Often, during the post 18 years, the government cannotation to discipline English-lauguage universities to discipline English-lauguage universities and bring them into line with the processor of importance of defending university freedom. One of the few bodies a peniv campalgning for ocademic freedom, the University of the Witwatersranil Academic Freedom Committee, has thought a major role in ettempte to keep higher education end eartheld separate.

Tightly oarked into 54 arres in Johannesburg's city centre, the university is the home base for the cannottee, which has been under the chair-manip of irrefessor Louis Nicolaysen for the point of view, as fundamental textbooks are umong the transmittee, while has been under the chair-manip of irrefessor Louis Nicolaysen for the point of view, as fundamental textbooks are umong the transmittee, while has been under the chair-manip of irrefessor Louis Nicolaysen for the point of view, as fundamental textbooks are umong the transmittee, while has been under the chair-manip of irrefessor Louis Nicolaysen, who lives in possibily the best city in the world far his field, geophysical line is hend of the university second the committee of the mouth of the committee of the point of view, as fundamental textbooks are umong the transmittee, while the point of view, as fundamental textbooks are umong the transmittee, while university is defined to the point of view, as fundamental textbook might have u three-line quite and underfunded, these understance of the point of view, as fundamental textbooks are umong the transmittee of the point of view, as fundamental textbooks are umong the transmittee of the point of view, as fundamental textbook might have u three-line quite and underfunded, these understance of the point of view as the point of view, as fundamental textbooks might have u three-line and underfunded, these underst

university libraries.

The APC is a permanent subrommittee of the university Senate. Its working definidon of acodemic freedom is "thet 700-year-old tredition whereby the university chooses who it is going to teach and what it is going to teach ".

It was formed in 1971, with 10 members drawn from the student body, the University Council and the Convocation so as to make it as representetive as poesible, its predecossor was the Open Universities.

Meanwhile, Committee's committee's constraint an South African universities nay lites, snys Professor Nicolaysen, has leen whom the universities any teach. It is iroule that the University of the Witwetersraud fell late disfovour with the government of disfovour with the government of the university had to be pressured into opening the course and building a eperior residence for black students. Today, however, there

During lost outumn's federal else-

Entry limitations likely to be

modified from next summer

West Germany

MEXICO CITY
Mexico's institutions of higher learning, requiring increasingly higher federal budgets as the campus population explodes, may be forced to abandon the present, virtually "free" education.

The possibility of drastic changes in the finencial structure of universities was highlighted in a recent etatement by Senor Cesar Uzcanga, Assistant Secretary of Education, who worned that "within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation that within three years we will face a situation to the namerus clausus problem. But litule in campuign all majur porties are incompleted of quick solution to the namerus clausus problem. But litule in campuign all majur porties and campu

ther Mexico's outlay for secondary education per pupil comes to around 1,200 peson (£25) a year, whereas at university level his cost can reach additional students of the tempotary business and the cost can reach additional students of the tempotary business and the cost can reach additional students of the tempotary business and the cost can reach additional students of the tempotary business and the cost can be according to the according to the according to the cost can be accorded to the cost can b

MEXICO CITY

But by far the most importent constraint an South Afriran universities, snys Professor Nicolaysen, has lieen whom the universities may tench. It is iroule that the University of the Witwetersrand fell late disflower with the government during the 1930s over its teluctance to edult blocks to medical school; the university had to be pressured into opening the course and building a eperiol residence for black students. Today, however, there

Oppusition of Bailen-Whittenhefg
Under the new plan die numerus
chusus will not be totally abolished
but as from the enumer semestor
1978 university cutrants will be
selected for only the following
soven "big" and five "emeil" eubjects: medicine, deutlarry, veterinery medicine, plarmacy, playehology, biology, architecture, biorhentietry, food chemistry, domestic
and nutritional ecieuce, agriculture
and eurveying.

be hedged with innuncrable and be and a failure to communicate fications. Even in the national bulleget receorch allorations appear in many disgulses, while those of nationalized ladaetry ere excluded allogether. Funding in the private sector is even harder to estimate.

Nevertheless, figures quoted by the continuistion show that research spending in the antional budget has rison by about 60 per cent in the last two years, while real spending by the research council has shoulded on average every five years since on average every five years since the property in the property in solar, blomuss and wind energy has been presented by the Swedish Energy Research and Development Commission. Covering the served state of 1978-1981, it would cost 9350 Skr and alus to easure the testing of alternative energy sources as a full content of the private and the private sectors to the property of the research and so freezer and the research and the research and government and the Librar until last mouth to agree on e modified version of it, untily because of the oppusition of Balen-Wilettenberg by the research council has sloubled on average every five years sinco 1960 and higher education expenditure doubled to 2,250m Skr (£257m) between 1970 and last year when calculoted at current prices.

Pollowing andy viets to the United States, Canada and the Netherlands, the canomission has put forward ecvered recommendations to improve research statistics.

put forward ecvorol recommendations to Improve research statistics. Parliement should get \$00,000 Skr a yeer to orovide MPs with hetter information, a further 700,000 Skr should go to Improve the collection of statistics and the state should give eid to the political parties to Increase their knowledge of research.

Commenting that "even experte have difficulty in keeping informed about their specialist fields", the commission also proposes the ectiting up of e centrel computerized register. This would house date on ell state-financed research end as much os possible on that privotely funded.

Regarding the unions, the comstiplects for which it operated a selection procedure.

Opening up the universities and opening up the universities and colleges is only possible if a larger number of permanent now stauture places ere provided each year. For finencial and manpower planning reasons this is universitiely. Not only are there reolistic fears that in the 1980s and 1990s West Germany's universities will produce too meny doctors, lawyere end teachers from 1985 the size of the 19 to under 21 age group will fall steadily, resulting in a droo in the number of those qualified for university entry.

The Linder finance and education ministers were receotly involved to draw up an emergency "overloading" programme which additional students of the temporaty bulge to be accummodated, a working party which, signification accumulational ecieuce, agriculture and eutwritional ecieuce, agriculture and eutwrying.

For applicants to meny other subjects, including chemiletry, food chemistry, domestic and untritional ecieuce, agriculture and eutwrying.

For applicants to meny other subjects, will allocate them a olace at the university of their choice, including chemiletry, food chemistry, domestic and untritional ecieuce, agriculture and eutwrying.

For applicants to meny other subjects, will ecit of sand euroying.

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For applicants to meny other subjects, will ecit of sand euroying.

For applicants to meny other subjects, will ecit, lecture of subjects will be cantiled by their first preference. In other subjects will be cantiled by their choice, them and euroying.

For applicants to meny other subjects, lecture of subjects will have exceeded by the ZVS will metally and every for their choice, them and euroying.

For applicants to meny other subjects, will ecit, lecture of subjects will be cantiled by their first preference. In other subjects, lecture snd eurveying.

For applicants to meny other subjects, including chemietry, economics and lew the ZVS will merely operate e simple procedure which will allocate them a clace at the universety of their choice, though not necessarily their first preference. In other words, every applicant is essured of a place comewhere. All other subjects will be completely unrestricted.

It remains to be seen whether

Regarding the unions, the com-Morway has created an indicate wants the newly-created oll and energy ministry.

Research watchdog body

Education Mioisler Jan-Erk

trial and commercial decision making to the unions.

The lack of a research community has also been the subject of a report published by the National Board of Universities and College. Written by Professor Maria Tros of the Graduate School of Public Policy, Berkeley, at the request of the Board, it found that research was scattered across too many disciplines and universities.

disciplines and universities.

Professor Trow found little interaction between researchers, e leck

of broad agreement on what the major problems for research should be and a failure to communicate findings. He suggested a prefer awareness by the government of who does the research reper than

STOCKHOLM proposals to increase government control and public occountability over Sweden's rapidly-rising research spending have been presented to the Education Minister, Mr Jau-Erlk Wiksträm.

Contained in o 600-page government-commissioned report at lungterm research policy, the proposals iarludo the creation of an interpleus proposals and the proposals in the proposal

departmental task force to moultor costs and projects and plocing a duty on the government to present to parliemont e comprehensive recearch and development programme every three yeers.

The programme, which would take the form of o Bill, would include a roller stream of the programme of the programme.

include a policy statement, detniled

include a policy statement, detailed occounts covering current resoncels and guidelloes on future funding. It would give MPs the opportunity to stoge a major debate on national research prioritiee once during the lifetime of overy parliament.

However, the present system of annuel funding by ecctor would continue with state emport being chemnelled through the National Research Council, government ageuries and etote-owned companies. The universities and higher education institutes would still receive about 80 per cent of funds through foculty allocations decided by the National Boord of Universities and Colleges. A further 10 per cent comes from the research councils out must af the remaining from The lack of a research community

Colleges. A further 10 per cent comes from the roscurch councils oud most of the remainder from donotions.

The commission, which was choired by a former Ghanceller of the Swedish Universitiee, Mr Nils Gustov Rosen, and anado up of equal numbers of MPs and academics, sees the need for an overall view of research es urgent; en opinion shared by Mr Wikström.

In the last decade research activity oud costs have intreased grantly but there has been little coordination and figures on spending have to be hedged with innumerable qualifications. Even in the national buil-

Skr and alus to easure the tenus of alternative energy sources of a lurge and protracted scale.

The commission believes that beth sular ond biomass energy could come into use before 1990, though what power is unlikely to lend itself to large-scale use in the near fund. Geo-thermal and aquatle power has lurge status according to the report. little future, according to the report, which soys trucker breeder reactors could not be introduced until the 1990s and fusion energy not ustil

2,000.

In Norway, the Electricity Generating Board has set on a committee of experte to exonduc the future of wave power end study current fiscarch in Britain. A Norwegian Underwater Institute has also been set up as part of an international research effort within the faterational Energy Agency (IEA) to examine deep-woter technology for oil and ges exploitation. In addition, Norway has creeted an independent oil and energy ministry.

Australia

At the Nerional University of Mexico (UNAM), the largest oducation in Letin America and the key university in Mexico's network of regional university in the reforming of steames a 10-point entergency prosities, proposals have been made for the reforming of steames to the indication in the reforming of steames to the indication in the federal than the reforming of steames to the indication in the federal than the reforming of steames to the indication in the federal than the reforming of steames to that it can be recommended. At the Nerional University of the indication in Letin America and the key university in element a 10-point entergency prosities, proposals have been made for the reforming of steames to that it would not his oppointment. The federal in the federal than the reforming of steames to that it would not his oppointment.

Mexico's notwork of regional univorsides, proposals have been mede for
the reforming of statutes so shart!t
con hecome economically independent.

The ontire issua of so-called
if ree." education of all levals in
Mexico is an open one. Workingelass families are herd-pressed to
scrape up the amount needed for
"free "primery education, (es much
es 4,000 pesos) for registration, uniforms, edditionel extre texts apart
from times supplied free, for reourrent "gifts" to teachers and so
on. At the secondary and university title is a postgraduon. At the secondary and university and university of indign of

Don's diary

folky connell moets in the salid foldy country like Skinners' Hall, a sandsonte Georgian town hause hadow of Canaon Street sadsone Georgian town hanse safer the shadow of Canaon Street Safor, the City terminus through sake South London (including me) roles dally to work, I arrive tate four ITM, where I have been safatang, if that is the ward, to its aning, if that is the ward, to its splaining, it that is a splaining, it that is young mothers, I put audience of young mothers, residences and striking firemently my fellow journalists on the bulk Mirrar have been taking what h known as industrial action for a fix of £60 e week and expenses of the \$100.

se elegant portraits thing running the bar panelling ond gilt for the bases of the day.

This is conducted by the production, a distinguished former
suddan new in the Lords, with incelor, a distribution of wit, charm, in the lords, with it elusive amalgam of wit, charm, it is elusive amalgam of wit, charm, it is it is in the lords, and, not ket the limit of steel under the east which olme can make the committee anachine clank to reasonable gulck and conciso conclusions. But to the campus in the kind was with which they transfer the remanded from court to prison. I have got in yet down to a pilo of cardiarious for City News, the conversity paper I started in the gring term in the interests of becheeded intrannural communication. Vivien, my vivacious und entegele right-hand person (there is no left-hand person—Communication with the lest efforts—and she is no man capiller of intermation of deven the resultest dons—we of of eyea the reustlest dons-we we wefully short of departmental zers Not to montion the profile we am to the printer last friday—he tame lind it.

Tuesday

fet down to making up my newsper between colls and callers. When I meet old journalistic callegues the linevitable question is a battle like in the peaceful grove of stademe ufter a lifetime in the Meet Street jungle? I am as hasy to ever, I reply, but lustead of looking at my watch every 10 minutes looks to the pressure of aniversity life may be say slower the pressures ere just to great—perhape even greater between problems cannot be resolved a steed by daily or weekly eather is at in journalism (which more and more, from my new ventage wat, seems to be becoming the lands).

At a gamekeeper turned poacher

At a gam ckeeper turned poacher lare an unrivalled view from the the boundary fence. The impression I get from the university side is that there must be easier sophisticated wey of running ther aducation, somewhere there are now-think-later which is the act-now-think-later which is the professor were runnoured to have modeled that CN should be publicly burnt that CN should be publicly burnt in Street (presumably to in Street (presumably to hind the fire round my etake).

And the second

not read it.
What strikes the journelist who

the few neonle directly responsible to the King's Head for a knees-up.

joins e university—aud fellow information mongers at other institutions confirm this—is the institutions confirm this—is the condender, is heldway the scoond course of opinion that such and academice, is heldway the scoond course of opinion that such and academice, is heldway the scoond course of opinion that such a state of the Skinners' excellent that and some budinage with any hears (I am here merely as any held broad oak staircase to a nelegant portrait-lang room of the benefit of the benefit of the benefit of the benefit of the land of the server of the staircase to a nelegant portrait-lang room of the benefit of the land of

1

Islington: raw character

specialists? Are they worth the money? Do we really oeed so

the few people directly responsible to me. I instructed him that the newspaper must be independently cilited, free to report the university, warts and oll."

By o respectably narrow margin the student paper falls to win admission. Paper story for CN as senate plunghs through the next business, That head of department is going to like the paper even less, I feur, ulthough he admits that he does not read it.

Tudoy, despite, or hecause of the gentrification of Cannothury and Borusbury and the high-priced charms of the Cannothury and the cannothury and charms of the Cannothury and charms of t Raw perhaps, but rich in the

churacter that eludes so many of those visually ettractive green compuses. This university's foretion in an averrrawded, shabby but bustling London village provides more bonuses than meet the inimediata

Friday

Over hunch at my club a shrewd, widely travelled friend tells me he recently dined at his old Oxford enliege and found it a profoundly degressing experience. "Scintillating high table conversation? It was all beneal gossip and small talk, mainly about Buggins's turn for promotion—not o word, witty or otherwise, about the Issues of the moment or even the cternel verities."

in touch with the world. I essure film that at the Shakespeare's Heatl, just behind Sadler's Wells,

always the routent, repays etudy.
As I found out early on, there is
a professional suspicion of
adjectives and the active voice—

money? Do we really oeed so many gralluctes?

I write frenkly because I em in the lucky position of heving a vice-chancellor and a pro-choncellor and other members of the hieroreby who realize that the edvantages of honestly airing critical views and the factual roporting of the university's problems outwelgh the discovered ventages.

samble of the Third and Fourth state and the costive democracy sinversity committees and work specific and the search of the committees and the costive democracy sinversity committees and work specific and the committees and the costive democracy sinversity committees and work specific and the committees are committeed. The word from show we commend the word of committees and the committees are committeed as the committees and the committees are considered and specific and the committees are considered as a second committee of the continuing psychological in the open.

A third to get more pegs to the state the committees are considered as a second committee of the continuing psychological in the open.

A third to get more pegs to the state that the committees are considered as a second committee of the continuing psychological in the open.

A third to get more pegs to the state that the committees are considered as a second construction of the continuing psychological in the open.

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A the continuing psychological in the open.

A third to get the continuing psychological in the open.

A the continuing psychological in the open.

A third to get the continuing psychological in the open.

A third to get the continuing

Is no escaping the realities of British in han lite if your compusis a quarter of a mile from the Angel, in tone of London's poorest, most multi-racial boroughs. As its Georgian side-streets, and squares like the one our stark new complex overlooks, still testify, Islington was once considered a healthy escape front plague-ridden London: Pepys was always hir ing coaches to bring his yieldly assorted friends up



Bryan Davies

"Ifull a ministerial lever in most deportments of state and one can fairly hear the machinery hum into action: do the same thing in the Doportment of Education and Science and all you hear ore niorm bells ringing." This standard piece of backbench lore must have seemed uncomfertably close to the truth.

Having annuanced in the House that local outhorities were to receive a long-predicted circular seeking information on verious espects of the school curriculum, she was promptly luformed by Fred Jorvis, of the Netlonel Union of Teachers, of his members' refusal in cooperats.

cooperats.

Clearly the Socretory of State was already in trouble in oterely producing what might be e key to the door of the secret gerden of the curriculum. Should she surceed in unlocking the door the opening neight still be barred by the forblidding bulk of the NUT.

Neverthalogy although the

a professional suspicion of adjectives and the active volce... enything more sensuous than the unquellified passive is regarded as vulgor journaleso.

There is a morked predilection for stilled Romanco vocebulary (commepcement for start, remuneration for pay, supportive staff for the stilled response out regard any action establed in the professional role of the two clerk. They ought, in my view, to be few in number for there is much which con usefully be contributed from this sector to the issues confronting the schools.

(commepcement for start, remuneretion for pay, supportive staff for
typist), leeden Civil Service syntax
and bearardized scientific jergon
(Input, interface, peranaster) thet
makes its own comment on the
daogers of early specielization in
secondary education. Gowers's Plain
Words (a little book I strongly
recommend to all academics end
"communicetors") puta it all
succinctly: "The use of the impersonal passive gives the
secondary school curriculum is
succinctly: "The use of the impersonal passive gives the
reader the impression he is dealing
with robots rather than human
helags."

Add to this the obvious fect thet

of courses for those who seek sixth form education but not specifically rendence training, and solved corners for the less able whose

edicational experience is shorter. Teachers in higher concertion have done considerably less to solve these problems. Yet they are pulpably nor without influence. The very recraitment techniques employed set a hench mark for school teachers. There may indeed be a limited correlation between A level success and subsequent degree performances but no school reacher could act ayan such a presumption.

Most aspiring slath formers who travel the country for their dreaded interviews have scant respect for the experience they undergo. Graduating in three years' time they may well find themselves exposed to a range of interview techniques oud diagnostic tests for their first job but higher education entrance is more likely to be "tea and a char"

If this process were translote into a more tharough selection system: If students and their tenchers really believed that qualities and attainments outside A levet study teally counted for much, then erhool perspectives might change.

Moreover, higher education sends

uncomfartably close to the truth
this last week for Shirley Willioms.
Having announced in the House
that local euthorities were to
the local euthorities the truth
the local euthorities were to
the local euthorities the truth
the local euthorities were to
the local euthorities were to the local euthorities were to
the local euthorities were to the local euthorities erudles can meke no such prosumption ls reasonable.

Yot whole ranges of degree courses especially in social sciences courses especially in eocial sciences seem to present e very confused pleture. Many courses in economics cheerfully ossume that the student has no prior acquaintance with the subject even though it is, of course, tought in very meny schools. Indeed, many professional economicts state entegorically that the student starting ofresh is et a positive edvantege. No proposition could more graphically describe the guif between the schools and higher education.

m that at the Shakespeare's earl, just behind Sadler's Wells, there some of the brighter voung hurs uf all ages and disciplines aeve their midday snaok, the chet is more stimulation, from the state of their departments to the stote of their mation, not to mention the England Xf.

In the afternoon we tle up CN in bundles for distribution and then tackle the bocklog of mell end official bund. Tho style, if not always the rontent, repays etudy, always the rontent, repays etudy.

In the afternoon we tle up CN in bundles for distribution and then tackle the bocklog of mell end official bund. Tho style, if not always the rontent, repays etudy.

In the afternoon we tle up CN in bundles for distribution and then tackle the bocklog of mell end official bund. Tho style, if not salves the rontent, repays etudy.

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In the afternoon we tle up CN in bundles for distribution and then tackle the bocklog of mell end in the first of the propession, the tour tour deuts the schools and higher education.

It is, of course, argued by some that the social elemes are inepropriete eubjects for loss mature minds. Many of us find that a difference were not pressed further by the milkely to be escorted to her tour deuts the schools and higher education.

It is, of course, argued by some that the social elemes are inepropriete eubjects for loss mature minds. Many of us find the those social elemes are inepropriete eubjects for loss mature minds. Many of us find the those social elemes are inepropriete eubjects for loss mature the transmitter of the prop

etudents.
Indeed, bodies like the Politics Indeed, bodies like the Polities Association demonstrates this to be the case: yet at present rete of progress, we will still be condemning the orejectey of our school children to politicel differency for meny years to come. There is much political thetoric on the "cophistication of the British electorete" but those of us who stand regularly on our constituents deorstepe or visit youts oldes, or even study the techniques employed by the National Front to recruit young people in our cities, fed no complacency about the success of schools in educabling for a democratic society.

In one specific area the time is

"communicators") puts it all succinctly: "The use of the impression is in the secondary school curriculum is succinctly: "The use of the impression is indicented by the reader the impression has been and inguly professional rather than human helags."

MONGAY

Graduation Day. From workadey leibrgron the university descends on leibrgron the university descends on and what many would regerd as a security security in the soulcast security and the democratic society.

In one specific area the time is and including the democratic society.

In one specific area the time is and including the continue is and



of mathematics in the University of Newcastle, New South Wales, has been clence ond to the headship of the new department of computer science e established in the University of Exercit October, 1978.

dern history at Tridity College, Dublin. He has been full-time editor tion since 1970. He also held a prafessorality of history at the University of Rristol and was visiting fellow at

Dr R. M. Browce, consultant to the Cantral Birmingham Health District, Regional Postgraduale Dental Tutar has been appropriated to the chair of orst

Honorary dégrees

DSc: David Attenborough, broad-caster and travoller; Dr Francis Jones, visiting professor of electrical enginoec-lua, University College London; Pro-fessor Sic Predecke Stewart, regius professor of geotogy, University of Edinburgh; Sir Frederick Warner, senior partner, Cremer and Wacner, and member of the Royal Commission on Environmentat Polintion 1973-76.

LLD: Professor Joseph Allen, formerly professor and boad of the department of town and country planning. University of Newcostle upon Tyne; Professor Clive Schmitthoff, visiting professor of international husiness law, University of Kent.

MSC : Arthur Cardiner, lormecly direc-lor of Unibak and secourry of the Institute of Offshore' Engineering, Heriot-Watt University.

Noticeboard is compiled by Patricia Santinelli and Mila Goldie



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EVERY WEEK

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The Times Higher Education Supplement

Universities

Edinburgh Honorary fellow: James Tall (ortho-paedic surgery, rehabilitation studies uqit).

Liverponl

Liverponi

Scular lecturers: S. L. Snowdon (anaesthesla), A. F. Evans (railludiagnosis). Lecturers: D. J. Chndwick (organic chemistry). A. R. Cossins (zoology); G. Lamplugh (anaesthesla); M. F. Eamadam (Oto-rhiaolaryngology); R. W. Asblord (parasitalogy); Jean Warburlon (taw); R. C. Pond (metallurgy and nutcrials science); Catherine Eilis (clinical veterinary pathology and bacteriology); G. P. David (veterinary and preventive medicioel; O. J. Stophenson and R. A. Smith (architecture); B. Naisbilt (oconomics); I. K. Bradbury, Ann Henderson-Selfors and Elizabeth Thomas-Hopo (geography); R. J. Pearson (marine transport); M. R. Preston (occanography). Temporory lecturers: B. M. Walker (modern history; I. J. Galpin forganic chomistry); M. R. Macnair (genetics); A. Valentino Jarchifecture); L. Moffatt (geography). Van de Graaff research fellow in physica: L. P. Ekstrom. Research fellow: R. Wadsworth (nuclear physics). Senior demonstrators: Janet A. Pryka (biochemistry); Mary J. P. Galpin and J. I. Proster (boteny); C. M. Woodard (Inorganic, physical and industrial chemistry); K. Sundacraja Rao (organic chemistry); P. A. Batter (physics); J. E. Phillips (snatomy). Demonstrators: Ann Bannister (biochemistry); M. E. Rose, D. Wright (organic chemistry); R. Cook (computational and statistical science); R. G. Thomas (geology); II. S. Reolial (physics); P. F. G. Rauffill (building oaginecriag); J. K. D'Brien (veterinary clinical studies).

University Coilege
Political Economy—£74,268 from the
SSRC for the research on taxation, locontives and the distribution of income, under Professor A. g. Akinson, Professor M. A. King and Professor N. II. Stern.

General

Kings College History—120,139 from the SSRC for a study of European trade in the late seventeculit century, under the direc-tion of Dr H. G. Roseveare.

Promotion to reoder: K. Hartley (economics and celated studies). Research fellow: I. Robertson (chemistry). Part time teaching fellow: R. Buckland (economics end related studies). Tutorial assistant: J. C. Malin (economic history). Organizing director, the Advanced English Language Summer School: Brita Green (language, reoppoluted). Research assistant: B. Jean Thomson (language). Honorary follows: Dr Nicholas Hawkas and David Sanderson (language teaching centre). London Selioni of Kennomics
International History—Et6,173 from the SSRC for the research on Romation between the Great Powers 1933-40, under the direction of Dr A. B. Polonsky and Dr D. B. Lungu. Statistics—£12,022 for resarrch to asymptotic expansions in relation to the fitting and testing of time sarias, uader the direction of Professor J. Durbin. G. R. Pellden, director-general of the British Standurds Institution, has been appointed chairman of the visiting committee for the Royal College of Act. New appointments to the committees: Eisheth R. Juda, consultant to industry; Runci McLean, director, Ruari McKeab Associates; Peofessor J. T. White, department of the history of art, University College Londan.

Liverpool

Economics—£25,270 from the ESRC for the international transmission of fluctuations in economic activity, secular growth and inflation under the direction of Professor A. L. Minford, Psychology—£14,079 from the SSRC for the research into truth concepts and social interaction in the development of logico-maintenatical knowintstory of art, University College London.

The Rt Hon the Lord Todd, master of Christ's Cullege, Cambridge, was reolocted president of the Royal Society. The new mambers of the council are is Professor P. Alleinprofessor and bead of the department of geology and director of the sedimentulogy research laboratory in the University of Reading; Sir Jemes Baddiley, professor of Chemical microbiology and director of the microbiology and director of physics in the University of Birmingham; Sir Peter Hirschi, Isaac Wolfson professor of metellurgy at the University of Oxford; Sir Andrew Huxley, Royal Society research professor at University College London; Professor of mathematics in the University of Oxford; Sir Andrew Huxley, Royal Society research professor of mathematics in the University of Oxford; Sir Michael Woodruff, amenical words and the British Sociological Association Sir Michael Woodruff, amenical words and the British Sociological Association of the Medical Research Council Blood Group Unit, at University College London; Sir Michael Woodruff, amenical words and the British Commissions, Is being hold at Brighton Museum and Art Gallery and Joonary 29. The collection of more than 100 posters comprises those designed by many famous postess of Edinburgh.

An exhibition of contemporary art posters from the private collection of baron van Lynden, designed by ertists in response to specific commissions. Is being hold at Brighton Muselm and Art Gallery until Joouary 29. The collection of more than 100 posters comprises those designed by many famous of tists including Picasso. Miro, Dali, Chagall and Hockney.

"Education Today and Tomorrow" is the them of the North of England Education Conference being hold at York University from January 3-6. Speakers include: The Secretary of State for Education God Econce, Mr. Roy Homoro, Principal of Cambridgo and Dr Parrick Nuttgens, director of Loeds Polytechole, Full details from March 21-22. The conference is and the Council for British Arcboool of State In Secretary of State in Education Conference of the Secretary of State for Education God Econce, Mr. Roy Homoro, Principal of Cambridgo and Dr Parrick Nuttgens, director of Loeds Polytechole, Full details from March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council for British Arcboool of March 21-22. The conference is almost the Council

Manchester

Menter Adrini Bescurch Centre—
121,371 from the SSRC for the research in the development of this
kolor skills in handlenpped preschool
children, under the direction of Dr
J. Hogg.

General practice—C13,584 from the
SSRC for a sociological examinationof non-rerbal behaviours in ductorpatient interaction, under the threetion of Professor P. S. Bryne.

Newcostle upper Trees

Newcastle upon Tyne

Leicesler

Anatomy—£11,456 from the Wellcame Trust for a study of the three dimensional arrangement of structure within the cat conside body, under the direction of Dr D. J. Pallot.

Allochemistry—£23,311 from the MRC for studies of the ribosomal bliding sites of antibiotics and toxins under the direction of Dr E. Chunliffe, £33,388 from £Cl for a joint scheme of research into host/vector systems in molecular genetics, under the direction of Professor W. J. Brammar, £53,854 from the the MRC for research into coloramphenical acetyltransforaso; structure, function and evolution of of plasmid mediated enzyme, under the direction of Professor W. V. Shaw.

Chemistry—£15,000 from Blosynti AG for an investigation of new mediada in organix synthesis under the direction of Dr D. J. H. Smith.

Genetics—£24,350 from the ARC for a

siles of anillibries and toxins ander the direction of Dr E. Cimillife, 13,388 from fol for a joint scheme of professor W. J. Brammar, £53,854 from the like MRC for research into neuronuscular diseaso of Professor W. J. Brammar, £53,854 from the like MRC for research into neuronuscular diseaso helm carried out under the direction of professor W. V. Show. Chemistry—£15,000 from Blosynth AG for au investigation of new neithed in organic synthesis under the direction of Dr D. J. H. Smith.

Genelica—£24,350 from the ARC for a study of the blochenical and genetical daterniants of selection of weight in alice, under the direction of Dr G. Bulfiald.

Microbiology—£14,038 from the MRC for chemiotaxonomic investigations of arreptococci, listeriae and other incide acid bacteria of medical importance indor like direction of Dr Dorothy Jones.

Poysics—£10,025 from the SRC for a theoretical investigation of cleetron cenergy loss mechanisms in solids under the direction of Professor J. L. Beeby; £3,241 from the UKAEA for a study of microbiological Chemistry Research into nerva and muscile murina muscular dystrophy, under the direction of Dr Dorothy to professor in the fire of the direction of Professor of J. R. Beeby; £3,241 from the UKAEA for a study of synilical disgnostics for firmace combistion, under the direction of Professor K. A. Pounds; £12,671 from the State of the direction of Professor of the di

Marine technology—f21,851 from the Natural Environment Research Council for the research on marine geolechnical mapping on the British and Norweglan Continental Shelf under the direction of Professor B. Dennes, Medianical engineering—£11,500 from the British Library for the project entitled "An approach to the paten-tial importance of information in engineering" under the direction of B. B. Owen.

lish.

golf science—£11,971 from the ARC for the research on effects of submin waste applied to grassland at controlled nutrient leading under the direction of Professor P. W. Arnold; £10,000 from the Grassland Research Institute for

leaching nr archaeology at degree leval on February 25 at the Paculty of Arts Building, University of Birmingham, Fee: £3.75, Further information from Jomes Ballantyne, BUFC, Royalty House, 72 Dean Bircet, London WIV SIIB.

A sominar on "Science Fiction—Ita place and use in Libraries" will be held at the School of Librarianship of the Polytechnic of Noeth London on Fahruary 8. This is the first course of its kind and is intended for librarians engaged in acquisition and use of science fiction. It will examine what is involved in hullding e comprehensive stock. Feo: £8 (closing dates for spplication January 13). Purtiler information from the Secretary, the Short Course Committee, the Polytechnic of North London, School of Librarianship, 207-228 Essex Road, London Ni 3PN.

ledge during childhood, under the direction of Dr J. Russell.

Manchester

Manchester

Mester Adrian Bescarch Centre

£21,371 from the SSRC for the research in the direction of Professor P. V. Arnold, and Sons to continue the project on this interval and the project on the continue the project of the continue the cont

Computing laboratory—£11,540 from the SRC for the research on data base support for system building under the fire of the research on the SRC for the research on the from the SRC for the research on the design of highly reliable computing systems under the direction of Professor B. Randell.

Experimental psychology—£29,185 from the SSRC for the research on reading skill in young children and the recogni-tion of auditury similarities under the direction of Dr P. E. Bryant. Social ambropology—£14,630 from the SSRC foc a study on affliction and illness, health and healing in Venezalan religious cult of Maria Licen under the direction of Or A. J. Colon and A. J. Williams.

Reading
Geography—£15,332 from the SSRC let
a comparative analysis of inner ubu
deciliae in selected West European
cities under the direction of Professor
P. G. Hall.

St Andrews

Psychology—Dr A. Whiten, £15,514 from the 5SRC for the research on a cross-cultural study of the educational environment of infants: Britain sol Niteria.

Science Policy Research Unit—£25,365 from the SSRC for the research of criteria for capital projects in base science: un assessment under the direction of Dr R. E. Turner, Or N. O. Dombery and K. R. Pavitt. Kinculion area—£42,858 from the SSRC for the research on accountability in the mibile years of schooling maler Professor R. A. Becher and Dr. M. R. Eraut.

Orster

Dr. D. G. Walmsley—£14,350 from the SRC for investigation of tangling conductance of inflorangeneous barriers; Dr. R. H. Williams and Or R. S. Murray £12,000 from the SRC for investigation of electronic structure of solids and angularty resolved photo-emission.

Bangor Economics-£32.238 from the SRC for

Remninics—£11,000 from the SSRC for the research of methods of projecting regional demands for labour using the Cambridge growth model under the direction of Dr J. 1. Round. Psychology—£15,268 from the SSRC for the research on the development of hirr-taking in modior-infant inter-

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COUNCIL FOR ACADEMIC FREEDOM AND DEMOCRACY

AGM: 2.30 pm, December 17, 1977 in Room 45, LSE, Heughlen St., London, WC2.

Open discussion on THE ATTACK ON HIGHER EDUCA-TION: Where does it come from? All welcome. (50p admission.)

Oil explosion cannot shake granite tradition

Scots Universities 5-Aberden

Judith Judd reports on the university of the old granite city—Aberdeen, now boom-town 1977

Aberdeen is an old-feshinned city and its university has always emphasized the old-fashioned virtue of teoching its students. All the oil in the North Sea will not change its ways nor divert it into a search fur pres-ige in the oilmen's world.

Though oil hus brought opportunities and problems Aberdeen is still the most Scottish of universities. Unlike Edinburgh and St Androws it is rooted firmly in the city and the surrounding region; unlike Glasgow it has a good prupertion of students coming from all over Scotland. The mothers of the Highlands and Islands still launch their children into the world through it and the peeple of Aberdeen itself have remeined constant to it.

constant te it.

Even its dramatic growth during the 1960s failed to shake its Scottishness. During that the numbers grew from 2,500 in nearly 5,000. The university did become less parochisi according to stuff who remomber the old days but students continued to come from unch the same places: inst year 41 per cent from the Grampian region, 9 per cent from the Highlands and Islands and I per cent from the region of Scotland.

The propagation coming from around Aber-

The proportion the rest of Scotland.

The proportion coming from around Aberdeen has declined by only 4 per cent in the past five years. The number crossing the berder from England, meluly from independent schools, has risen only slightly during the same time, though it is much greater than it was in the pre-expansion days. Overseas sudents, who now form 7 per cent after student population, have added a cosmopolium flovour.

added a cosmopolitum flovour.

Few in Aberdeen worry about the "onglicisation" which troubles their colleagues farther samh. The Ruglish lecturers who arrive intending to stay a few years often stay for ever. "People from England who come here end up by being more Aberdonian than the Aberdonians", says Sir Fraser Mobe, the principal.

If the expansion has falled to augliciso the university, its effects have been felt elsewhere. Professor Elizabeth Fraser, thean of the faculty of arts and sacial sciences, remembers with some regret the claistered und leisured thus of the early 1960s when overyone knew everyone else, it adds of department had more authority and less time was spent ee meetings and democracy. Professor Kenneth Walton, the vice-principol, recalls staff and students earling legative and e strong, lightly knit communications system throughout the university. oul the university.

But the common view of the expansion is surprise that it has been so untraumatic. Professor Wulton clso says that the communications system has survived well. Abordeen's sense of community romains. Those who ceme from Scotland's other universities remark on the friendilness and informality.

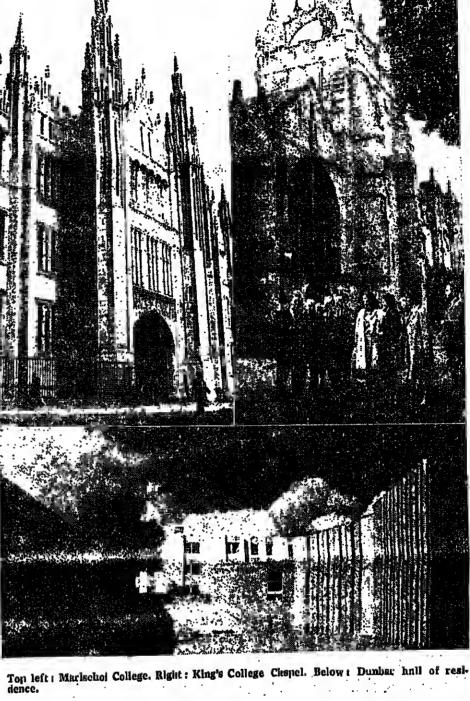
remark on the friendilness end informality.

Mr Wolf Moser, reeder in chemistry and assistant dean of admissions in the faculty of science, believes that the effects of growth here bean smaller in Scotlend then in English because of the four-year honours course which gives universities time to bring their students up to the same stendard. He now holds remedial classes, something he would not have dreemt of doing 20 years ago, but which he stoutly defends. Students may be less well prepared in the basic skills, but by the time they leave they are as good es over.

Mr Moser's remedial classes are characteris-

Mr Mosar's remedial classes are characteristic of the wey Aberdeon treate its students. Student welfare is paternelistic, too much so, eay semo of the staff, though not the students themselves. The system of sdvisers, regents and tutors ensures that it is very difficult for a student to fell through the welfare net.

wildigate the student to fell through the wilders are wilders. The university's attitude to its students has been windled by a recent bluory remork, and the students desired the students of the students of



or just plain stupid", seld one lecturer. "But ther's e mistoke. It's just that they only speak when they have something to say."

Certainly there hes been no rush to grab student power in university government. Students may feel, strongly about South Africe but a recent lnquiry into litternal acedemic govornment was set up without student pressura. The inquiry bagan at the end of 1973 when the university expected it would have when the university expected it would have relieved when it was decided this should not happen. "It would have changed the charachappen. "It would have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would should have seen it 15 yeers ago. "We would so more beve hed reports on ioternal acads should receive full memberable of the students with a tripy. Under his successor there has sentill hold. Professor Fraser easys that those withink the university moves slowly and its recent than the air would have seen to take the professor of something to not the university moves slowly and its reservant than the air would have seen to take the professor of something to not the university moves slowly and its resolute. "The university moves slowly and its resolute. The university moves slowly and it

ecomplished but the university has had to contend with remotoness ever since. It exports post-groduutos and does not always find it easy to ettract them from elsewhere, despite fine collections of papers, especially about the Jacobites, in its library. It is de-pendent on adequate travel provision for its

recearchers.
In its submission to the University Gratus
Committee at the end of last year loar university lecturers argued that the number of too low: 93 in arts and social sciences, 198 in science, five in medicine and 27 in divinity. They wanted to develop more taught courses for masters' dogrees lit subjects such as mudfor masters' dogreos lat subjects such as mud-em Scottish studies, applied geophysics and forest businoss management and economics. Aberdeon's plans for expansion go further. Sir Frasor Noble argues that the university is Ideally placed to be a centre for Nordic Studies. Chonges are also plouned in medi-cine which has been not of the strongest sub-jects. Its popularity continues to increase and it has become difficult to find enough patients in Aberdeen to cope with the de-mands of clinical teaching. A scheme to do some leaching in inverness, centre of enother region for local government and health, is being considered.

being considered.
One of the most recent arrivals is fland economy. Aberdeen is the first university in Scotland to offer such a course and only the third in Britain. The approach came from the Royal Institute of Churtered Surveyors which he approach a surveyors which is providing money and granting exemptions from some of its examinations. In other subjects the university continues along its traditional paths. It still trains lawyers end elergymen and prider itself on its biology and forestry. Its South East Asian studies course reflects the interests of the many collegity and southerned to Absorber. many colonists who returned to Aberdeon and the institute for the study of sparsely populated areas makes good use of resources

populated areas makes good use of resources cleser to home.

The approach of the Centre for Scottish Studies is determined but unchauvinistic and has researchers looking at anything from patterns of morbidity oud mortality to Scottish agrarian nevels. At undergraduate level history and language and literature take their places beside their English convolents. The centre publishes an historical journet, Northern Scottand, and the Scottish Literary Journal is edited by Mr Thomes Crewford, reader in the English department. He says nationalists who claim that too little work is done on Scottand must have their eyes closed.

Aberdeen The two did not menge until 1860.

Aberdeen The Berdeen town and gown. The university takes its nelationahin with local schools oerbously end Mr Donald Withrington, the schools liaison officer, is a well-known figure. The liaison service, which recently medo a film about the university for use in schools, is active throughout Scotland and even across the border. Mr Wilhrington has six associates and a full-time secretary.

secretary.

The service expects to be busy this year as the university increases in efforts to ettract students. Staff are concerned that it is not neceiving as many applicants as it should. This year there was a slight decrease in this numbers admitted in pure science and forestry, for instance, though numbers in agriculture and engineering went up. In arts and sociel calcuces the total also fall, though only by 11.

only by 11.

Staff feel that Aberdsen can do better. They believe that the publicity given to the city because of the oil boom has created an image of a glamorous, expensive place, which is putting off applicants. The idea that it is head to find accommodation that also gained ground. Though between 25 and 30 per cent of studeots live at home and there are more than 2 000 offeres in halls of residence, the

G 1

THE TIMES HIGHER EDUCATION SUPPLEMENT 16.127 David Walker talks to Robin Blackburn, one of the stars of the revolutionary 1960s

LSE casualty calls from new left at top of the stairs

Robin Blackburn stood one. Purt of the attraction was bis appearance. As the Duily Sketch put it—no smoll tributo to get n mention in the short columns of that dying pater—ho had "film stor gnod loake with a shock of prematurely grey hair".

was forght and he has put his talents to use. He writes, edits free-lance for Penguin and Farmana and travels widely abroad.

The is a child of the years when such a cience boomed and student numbers grew at a great, tate.

Arriving at the LSE in 1962, he was an assistant lecturer by 1967 to

Even in the 1960s, when bright, critics, among whom were his young and left-wing social science former LSE totors, admitted that he lecturers were thick an the ground, Robin Blackburn stood out. Part of talents to use. He writes, edits free-



omnent revolution, sinuationism, pluy pawer, hippiedom and so on, were valuable, Mr Blackburn speaks of a "voluntaristic-subjectivist" side to it which though acturnal in the circumstances could not lust.

new pluralist Marxism. The actionaries took core of that, They made the LSE into a sectaring and ultimately sterile place.

Perhaps the best assessment of the 1960 of the 1

of a "voluntaristic-subjectivist" side to it which though acturn in the circumstances could not lust.

The 1960s had o big impact within Marxism. The monoididic lileglogy associated with the Communist Party broke up into different currents owing allegiance to neither Mascow nor Peking. Fresh blens antably fram Cantinental Europe enlivened debutes in Britain such that "we enn no longer he Ignared in the woy we were. Marxism has become such a yiral and intelligent presence duch it cannot be ignored. Angla-Marxism is now stronger even than in some continental companying the property of the property of the property of the property of Marxist thought of which he talks generates exciting and all the property of the property of the property of the property of the significance of the 1960s the given in the property of the significance of the 1960s the living, at least at the party of the rickety stuins leading to the rickety stuins leading to the rickety stuins leading to the strong the property of the significance of the 1960s the living, at least at the party of the rickety stuins leading to the rickety s even than in some continental com-tries. Note that it is an influence bosed an the quality rather than thu scale of modern Marxism."

New Left Renew c. Hoes in Carble Stroet, may not be easy, but it nat bad. The publishing company back Hst expands. The liberation of Murxist thought of which be talks generates exciting new tiles Names from Continental Marsisa become familiar. The New 1st Backs catalogue contains the Italian philologist Schastiano Timpaneous of the Swedman subologist Garal Thorbarn. There are non-Marsisa ton: Poul Feyerbead the methologist, and on natranslated work of Max Weber an the samples of nacient societies. And of course he hardy British Marxist contails sed as Perry Anderson and Tom Name.

Aspects of university life, from left : Funn study in Le Trobo anture reserve ; roligious centre at Monash : South Lawn. Melbourne. Before visiting Austrolia, my snaprole would have gone to the Notherhalds as the country where one is assi likely to meet a committee on every street corner. But the opportunities ufforded by a federal constitution for setting up inquiries at both state and ennountwealth level have allowed Australia a clear lead; the Williams concentre on education and training, the Anderson inquiry on post-secondury education in South Australia, the Partidge equivalent in Victoria and the Paine inquiry into trade union reining are the major current lovestigations.

Many of these chairpeople dready have more than one similar tepart behind them. As for standing business, the Universities Commission has just joined with its other commissions for colleges of advanced collection (CAEs) and technical and further education (TAFE) to become the Tortlary Education Commission.

The spate of cumultation demandation in the condensation of the condensation of the condensation.

Land of committees wrestles with tertiary problems

Reflections after a visit to Australia by Tom Schuller

Education Commission.

The spate of cumulities demandrates o serious concern with the toodition of past-secondary education in Australia, which stems from an exceptionally rapid expansion randing full till have an economic freeze and a change of government, before the new institutions it engendered but had that thus in establish other their individual identity or their relation to one matther.

other their individual identity or their relation to one mother.
One doubtout Issue is the division of fractions between the three setors of tertiory education. The CAEs are the ment in this particular sandwich. They suffer frum according tendency towards inaking tendency towards inaking their coveres recomble university their courses resemble university courses os far us possible, and an the other hand they are worried about TAFE encroaching an their

Some have been prematurely established in the unfounded expectation of continuing expansion, others are hadly situated (such as seliabury CAE to South Australia), sed they have neither the institutional tradition of the universities for the valued responsiveness of the TAFE sectors to buttress their claims.

the TAFE sectors to buttress their claims.

But the question of the division of function goes deeper than mere questions af placing, vexed through these are. A poper submitted to a weekeed seminar held by the williams committee argued for a return to a more ellist conception of a university, because the existing number of 19 was simply too many for Australia's needs or resources. What gave the argument bite was the fact that the outhor was the vice-chancollor of a university which would certainly not he one of the clite.

The universities, leaving benefits.

As a self-help activity, the learning exchange deals with over 3,000 individual cantacts a year and through the paper puts at least 10,000 a month in direct contact with community based activities, et an ennual cost (\$24,000) of about the same as that of e single teacher in the formal system when capital, meterial and administrative costs are taken into eccount.

are taken into eccount.

Outside both the formal end informs! oducations! sphere, the ostablishment in 1975 of e Trade Union Training Authority (TUTA) mede e start towerds filling e sizeable gap in the provision of recurrent education. Industrial relations in Australia are generally recognized as being fairly chaotic for n number of reasons, ranging from the number of unions (over 300 for a working population of six million), to the feudal attitudes of some employers and politiciens.

Before the establishment of

its already neknowledged responsiveness, ns well ss its vocationalism, and this is likely to be compounded aff, at any rate in certain fields, and this is likely to be compounded for illuscharging the recurrent education functions of the whale territary socior, while the other two sectors linesy diomselves with conscipling fur its undents coming mare or less directly from secondary as calculating their convenidational school in the formulation of the current oducation being given both a more heavily vocationel character end a more heavily vocationel character end a more isoleted position within the farmulational system.

Some universities of have cautioning education units, but the same more problem emerges; does due to concurring the belief that support for this relieves the university of respansibility for making other efforts on the recurrent education cornit?

To put it another way, thu illient in the formulation of the recommendation in the corning of the corning and this is likely to be compounded and this is likely to be compounded by demographic treads.

The result is that evan a well-stablished university such as the public funding involved, but the result is that evan a well-stablished university such as the public funding involved, but the result is that evan a well-stablished university such as the public funding involved, but the result is that evan a well-stablished university such as the public funding involved, but the result is that evan a well-stablished university such as the public funding involved, but the result is that evan a well-stablished university such as the public funding involved, but the recurrent expenditure amounted to go doubt numbers of unqualified mature studouts at the public funding involved, but the number of unqualified mature studouts in the serial public the number of unqualified mature studouts in the serial public that was indicated by the funding electron public in the number of unqualified mature studouts at the public funding in the recurrent expenditure amounted

same problem emerges: does that existence of separate dopottment encourage the belief that support for this relieves the university of responsibility for making other efforts on the recurrent education rout?

To put it another way, the ellient is now boing paid to low-cost numformal apetations such as the Molvern Leathing Exchange in Melbourne widen as the Molvern Leathing Exchange in the Molvern Leathing Exchange in the one supplied to touch, via o committing to touch, via o committing education, or touch with people with own system.

As a self-help settivity, the learning oxchange deals with over 3,000 individual contacts a yoar and through the paper puts in least 10,000 a month in direct contact with community based activities, et an ennual cost (\$24,000) of about the same as that of e single tescher.



initiative in the area of educational leave is the failure to penetrate very far down the hicrarchy. Nowhere would this be truer than in the case of migrant warkers. Over 40 per ceet of the labour force in mountagement has warkers of 60 different untionalities an ite backs; and there are hold raising stories af the tatal failure to comprehend evan their language-training needs, let along the editor and their language-training needs, let along the editor of the labour south and the editor and their language-training is nowhere near acceptance in Australia, though the need is far greater. Unions as well as management have been fiercely criticized for their complacency, but it could be that the migrant issue will force them to extend their conceptant of bargaluing into new fields of a mora social character.

It would be wrong to conclude without referring to the debate entrently taking place on worker participation and its bupilications for education. TUTA and some individual unlong run courses on this topic. a Halt far Industrial Domo-

ror education. The courses on this topic, e Ualt far Industrial Democracy exists in South Australia with direct access to the ptender, and

several government departments have concerned themselves with one or other of its soveral aspects. It became clear to me that there is a covert ideological struggle going on between those who would interpret worker participation in terms of job redesign and organizationel development, so those who hold that it must entail a shift in decision-making pawore.

At present most of the initiations have come from management and have tended to take the form of joint consultative committoes, which lean more towards the former interpretation. My view le that unless unions and other lebour groups take up the cudgels soon, the chance of a more substantial shift in the distribution of power will disappear. Ba thet as it may, there is widespread agreement that any of these moves must include the provision of education for those involved, and for many people this represents a significant opening up of educational opportunity.

A finel word about the Centre for Continuing Education, directed by Chris Duke: it is based at Canberra within the most generously fueded university in Austrelie. Inva

Union Trialing Authority (TUTA)

The state of the state o

The hard-headed academic equilibrists of Regents Park

Peter David visits the London Graduate School of Business, which tries to keep a foot in two camps

Entering the London Business School from the serene lawns of Regents Park can be disquireting. Outside, the school is an elegant stuccocd structure with elassical columns and cupolas. But the cupolae, it turns out, are male of a sort of plastic and the building itself is a modern purpose-built block slotted heally inside a carefully preceived regency facade.

C.

anything offered by the Aniorican business oducation moceae of Harvard or Stanford. The teaching programma is supported by an increase aubsidized by short caurses for executives.

In all throo fields the achievements have been impressive. There are five times more candilotes than pleces for the masters' programme, in spite of its two-year structure requiring a greater personal sacrifice then the more common one-year pottarn affored by other colleges. The school's economotric forecasis of the British economy are alighly valued by the business community, and there is an shortage of candicates for the six and ten-week executive courses, which cost participanis something like \$3,000.

The pattern of excivities has to only 40 per cent of its incume derived from grant aid, it has had

The contrast lo instructive. Business schools pick their cateful way the wood the ontogonisde worlds of industry and higher educetion. The London Business School, founded in 1965 and whilely seen as the scme of British haviness and management oducation, has worked hard to blend the trappings of appelaus scademia with the hard-lesded practicalities of of commerca.

Miking the two, and reisining and the school is proud of its insurance of always been easy. On the oos population of the contrast is always been easy. On the oos population of the contrast is always been easy. On the oos population with London Uniterrograms always been easy. On the oos population of the contrast is prouded in the contrast is prouded in the contrast is provided in the cont

is by undertaking real-life projects with outside companies. Over 50 companies not study their problems and belo make major decisions such es whether to diversify to the such that the decisions such es whether to diversify, set up new factories ond so an.
All this erestes an environment
wholly unlike the traditional university department. At the fonden
Business School, the Figure 1 Times
is more in evidence than scholarly
journals, and it is this interrelation
ship with the business community
which makes it essential, is Professor Ball's view, to safeguard the
school's independence and auton
ony.

Professor Bull wents his staff to be "visible", ee adopt at public relations as of scholorly study, "We know this academic wonder men doesn't always exist, so we invent executives, all sorts of people here. It makes life very interesting, but also very hard,"



Inside the cupolas a modern purpose-built block.

HIGHER FOUCATION SUPPLEMENT New Printing House Square, London WCTX 8EZ, helephone 0f-837 1234

Jam today-or tomorrow?

The dileanna that now faces the Association of University Teachers aver pay can bu stated slimply: at what stage should they occept the laevitable ond seitlo for 10 per cent? The crimbling of the confrontion between the confrontion between the confrontion of the confrontion between the confrontion of the confrontio froatstion between the Government and the firemen and the decision by the National Union of Mineworkers' executive to keep to the 12 month rule means that the present precarious accomes policy has been giren an extended lesse of life that will run until ot least the spring.

For univocally teachers it means st what little prospect there was of twisting the Government's arm to of twisting the Government's arm to use the anomoly to excuse a settlement outside the 10 per cent guidelines has now entirely disappeared. But this is out the end of the autter. First, individual university teachers whose expectations af smore generous settlement hove been raised by the AUT's campaign over the past three months may complain that the ossociation's leaders, like die Grand Old Duke af York, have led them up to the top of the hill—sad led them down again.

Second, and for more important, the turns on which the AUT finally tho terms on which the AUT finally agrees to occent 10 per cent this year, and the time ut which this inevitable concession is made, will almost certainly affect the structure oud the scale of the increase in university teachers' hav next year. Here the AUT is in a quandary. Should they behave "responsibly" and hope that their good manners will be rewarded next year? Or will be rewarded next yesr? Or should they play a rougher game oad demand guarontees about next yesr's settlement before they accept the 10 per cent?

away through some phased rectifi-

Cution.
Others urgue that the AUT must Others urgue that the AUT must not be content with nods and winks and the content with nods and winks and motter settlement. They point out that the firemen have managed to server o series of glittering promises from the Government by their intransigence. So they suggest that university teochers too should bring all the pressure they can on the Government—in the loopo not of getting more than 10 per cent dissipation of the kind of pluralist year but that in their eagerness to get the matter settled the Government in British. He has getting more than 10 per cent dissipation to the otorious firmer guarantees about next year.

Until obout 11 days ago this second strategy looked the most second strategy looked the most second strategy looked the most included to an entirely proper doses. So long at the most limited to an entirely proper doses. So long at the most limited to an entirely proper doses. So long at the most limited to an entirely proper doses. So long at the most limited to an entirely proper doses. So long at the most limited to an entirely proper doses. So long at the most limited to an entirely proper doses. So long at the most limited to an entirely proper doses. After oil, controversy on these issues is still millowed.

firmer guarantees about next year.
Until obout 111 days ago this second strategy looked the most promising. So long as there was any promising. So long as there was any possibility that the 10 per cent dam would be swept away by a flood of successful pay claims it oracle sense to delay a firm settlemone of this your's claim.

of successin pay craims it cracks sense to delay a final settlemone of this year's claim.

Today the responsible strategy should probably replace this shell one. The Government's determination to hald the line on wage rises is now recognized as much tougher than many had supposed two manths his ago. If nower workers and firementally are to succeed? In adv case, the AUT now should remember that in these doys of a annual grants to universities fory. (precariously extended in a conditional relemnmental grants to universities for the powerful weapon in reserve in the game.

The boss course for the AUT now

Modernism

Very often the greatest modes. Sur, fulls on those students who receive of great deal of support from guvernate the fulls on those students who receive of great deal of support from guvernate the fulls on those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate to be no plessing fulls on those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate the provided manths in each there? The fulls on those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from guvernate full so these students who receive of great deal of support from guvernate the full so those students who receive of great deal of support from gent. Funity ment returning to sudy the full so those students who great deal of support from gent. Funity ment returning to sudy the full so those suddents from low-in

shape of cash limits.

The best course for the AUT now ls to sceept a 10 per cent cost-ofsecrept the 10 per cent?

There is something to be said for both courses of sction. Some acgue that university teechers should accept Mrs Willisms' firm promise to rectify their anomaly as soon as Incomes policy allows it and to iske note too of the less explicit nods and winks coming from other quarters. Above all, seconding to this line of organent, they should preserve their enomaly litiset for more effective use as e bargolning counted in less rosiricilye times and not nilow it to be withtled.

But the last peopls to have any right to criticise the equity of the adequoty of the present arrongements for oversees students ero those who have done most to produce this unsortisfectory state of affoirs by refusing even to admit that any spocial arrangements needed to be made et all. This is not a criticism of the prosaura groups (including the thoratess of oversees students, but of the university and polytechnic enthorities who heve done little but conceil a o nerrower self-interest beneath the brood folds of threat altruism. They seem to bave come perliously ctose to saying that thay must be allowed obsolute discretion, over how meets of the financial implications or the effect on educational opportunity at home.

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LETTERS TO THE EDITOR

AUT and Gould

DAVID MARTIN,

Ifonorsry president, Students' Association, Strathelyde University.

Science teaching

Yours felthfully.

BRIAN GANT, College of St Mark and St John,

Communication courses

all of them in polytechnics. In fect, Podgate Collego of Higher Education was ons of the ploneer institutions in offering education of technology es a substantial port of an honoucs degree course over 10 years ago said for the past three years has been offering o BA in media end communication, validated by the University of Manchestor.

This course has a strong base of psychology and communication theory with options in electronics,

optics and programmed instructions.

There is a substantial number of

Yours faithfully.

Professor of saciology, London School of Economics.

Shr.—I am writing about the proposal currently before the Assortation of University Teachers' Council concerning the Gould report. Professor Enable is alleged to have improped the integrity of members of the AUT and launched as ACCombining and the concerns. The result has been an insured the specific and the concerns, and the concerns and the concerns are a ACCombining and the concerns.

issues is still utlowed.

The Goldd report is, of course, an example of a polemical genre long

I confess it does seen to me a trifle grumpy of him. I praised his book for (among other thiogs) generosity; also for its lively responsiveness to on artistic wadition in which toleronce of the diversity of opinion is of the essence. I hope I hove not but alstook him oil this white.

Yours faithfully, MICHAEL LONG, Churchill College, Combildge

Sir.—Michael Loag's discussion of The Lessons of Aladernism (THES, December 2) by Gabriel Joshavici striking a proper balance

The Government may have some fearly crude iden on what should ha doas about deciding the proper proportion of coverages students in universities end colleges. Unformation to his hat should be to "provided out of public from university vice-chanceallors to the billion did the one-eyed man is king, so the Government's policies are about imprecipable to terms of officient administration mad linearity to to brooder cducetion and Science, will samit that a legitimate problem exists, let alone suggest of colleges, would be wrong if half the places in the standard problem exists, let alone suggest of colleges students as set of the medical schools were occupied by the open colleges and is king, so the graph of the provided out of public colleges. Unformation of overses students, of the provided out of public colleges. Unformation of overses students, of overses students, of the provided out of public colleges. Unformation of overses students, of overses students, of the billion of the colleges of overses students, of the billion of the provided out of public colleges. Unformation of overses students are provided out of public colleges. Unformation of overses, solution of the unind's greatness of overses students and the seriousness of dilenming of service of overses students are provided out of public colleges. Uniformatic provided out of public colleges of overses students are provided out of public colleges. Uniformatic provided out of public colleges of overses students are provided out of public colleges. Uniformatic provided out of public overses students are provided out of public overses of overses students are provided out of public overses of overses students. In the last the public of the provided out of public overses students are provided out of public overses of overses students. In the last the public ove

Department of history end libered studies;
Besingstoke Technical College,
Basingstoke,

Costs and morale.

Sir, Max Beloff (THES, December 2) says that "our experience at Buckingham suggests there is an improvement in student morale when students are brought up against this true cost of their education."

studeots on the course end we sro at present interviewing for 1978 Surely Professor Boloff is hasing its claim on a mere handful of students? Our axperience in Scotland, is that student morele is releted not, to the "true" economic cost but to the "ceal" cost to e student end his family. R. HORDLEY, Deen of rosoucces.
Padgate Collego of Higher Educa-

Lay involvement

Sir,—In his article "Laymon and university government" ITHES, December 9) Dr Dahrendorf contrasts the Bricksh and condominal systems of university government, and notes that one of the characteristics of the former is the involvement of knymen. In deploying his arguments for and against the lievolvement, for made against the lievolvement, for made begins to mention o lorgo part of the British experience, for Cambridge and her to leges are, and always have been self-governing without lay representation, and the same is surely true of Oxford.

From time to thus the state has

of Oxford.

From time to the the state has intervened, formerly through the Crown ond mora recently through Pauliennent acting on the advice of

Parliament acting on the advice of a Royal Commission, but for over seven centuries the principle has been that the university govern lessly without lay representation according to statutes supplied, or at least approved, by the state.

The mast recent Rayal Commission on Oxford and Cambridge Statutes admit approved strongly against outside representation, and the resulting Cambridge statutes admit nose, That may or may not be a good thing, but it is a substantial part of the British experience, and any commiscutation on this issue would be wise the consider the report of the Royal Commission and its accompanying papers.

Ginivillo and Cains College, Cambridge.

Academic pay

Sir.—It is sad to see (THES November 25) perpetuating the myth that "university teachers now leg behind their pulytechnic colleagus thu perhaps semantle question of what is meant by an arrange la this context, let us look carefully or the figures provided.

The polytechnic becurer 11 may be not a the production because the polytechnic because 11 may be not because the production of the polytechnic because the production of the p

Sir,—Yan and the Association for Science Education are right to warey about the quality of science teacher training, but why do you always publicize the places with problems? (THES, December 9.)

In this college we still train teachers of physics, non watereddown to physical science. We still have staff with years of school oxperience. Wo still find that the students who gain Blids ac tertificates which include passes in physics get jobs in the tooching profession.

Of course there are problems, and of course there are changes, we now work much more cinsely with local teachers, with the ASE, and with the local polytechnic, and these charges have a charge of promotion with the college of the provided. The includes in the profession the provided in the minister of £3,744. He then has 14 steps to the bar in the sentices 14 steps to the bar in the science of £4,744 (not as your quance, £6,517). By this store ture scale, which is store the college of £6,555. In fact, he will have been the in the mulversity with the includes of promotion will have been the same of £6,655. In fact, he will have been the includes 14 steps to the bar in the sentices 14 steps to the provided in the same of £6,655. In fact, he will have been the same Sir,—Yan and the Association for Science Education are right to warry about the quality of science teacher training, but why do you always publicize the places with problems? (THES, December 9.)

of courso there are problems, and of courso there are changes, we now work much more cinsely with local teachers, with the ASE, and with the local polytechnic, and these changes benefit our studeots. Some of the problems are fun, too, or see you too gloomy to believe that? erous to the polytechnic man that ho stands on equal chance of prometion to that enjoyed by the university man. The solery scales in volved, for example, principal lecturer in polytechnics and senior lecturer in universities, are virtually identical. In the most senior postions, almost oil Grade V heads of departments and the majority of grade Vf will carn loss than a university professor.

receity professor.

Thera is no doubt that noiversity trochers have been badly treated in the lost two years. This is no reason, however, for them contain ously to otteck, often in a distonest manuar their collegues in poly-Sic.—f was concerned to read in Simon Midgely's octiclo ebout degroes in madio studies in (THES, December 2) that "thece are only six degrees courses in the country all of them in polytechnics". In manitor, their collengues technics.
Youra faithfully,
J. A. SIMMONS,

Association of Polymechnic Teachers, Throgmorton llouse, Elphinstona Road, Southsea, Flompshire.

Posnett thesis

West Garmany.

Sir,—As I am commenting a thesis on the life and work of Hutcheson Mocauloy Posnett, author of the work Comparative Literature (London Kegon Poul, Treuch 1886) and loter Professor of Classics and English at Auckland University New Zealond, I should approciate hearing from enyone with ony information os to recollections, letters or onpublished mothiscripts. Any information at oil would be appreciated. Yours sincerely, Yours sincerely, HELEN M. O'CONNELL, S1 Anchon, Ringstrasse 151,

letters and records of writers of genlus", and Wilson told Flayd Deil in 1952, "are one only ways are have of finding out how life was fived in any given time or place." Wilson's own give a fiest-hand improssion of the intellectual American men of letters from the First World othe 1970s, o picture, that is, of Wilson's career than of his private life. The deliherate exclu-domestically personal letters distorts the collecdonestically personal letters distorts the collec-some respects while enhancing its homogeneity hers. The non-specialist cannot, for example, the sure which it his wives Wilsoo is married to one time, but his literary friendships and his the America of the day are vividly docuaile the little, literature is much more promirepresented than politics. Not until 1929 does

intellectuals, etc. to identify theoreelves s little win the general life of the country". A year later shimself " going further and further to the left lime", but with o charocteristic uneasinesa; not that Communism in itself isn't all right, but that sort of thing in America secus even more with he is convinced that Americans are "prob-both better fitted than the Russions to handle phiems of socialism, once the idea had been "". Wilson's socialism finds its origins far

international theory than in his Americanness, is letters are concerned far more with the of socialism than with the politics of day-to-day all Congress, with the possible future of his guan with the octuality of its present. He never heimportance of creative literature in shoping worthwhile future. fish io creativity explains in part the distrust

สัมร์เงลม acodemics that is evident throughout Max. One of the very few for whom he sustained drespect was Christian Gouss, who hod teught iterature at Princeton: the tune of this corres-tive differs sharply from that which he regularly to is writing in nthers, not loast in that Gauss is taly man from wham he constantly seeks advice daybom he rarely offers it.

mestly life did not attract Wilson but when, Sago augment his incuore, he usks Gauss in 1938 was teathing, he does so with typical condour bow from experience that I'm an good us a lecturer tender way", and he offers instead to remi a sof suides. His references to his subsequent tak appointments are similarly equivocal and his the of scadenics intensifies into a condemnation ches like John Crawe Ransom for their university The public are burnd with Eliut, he suggests M, because "he's fullen intn the hands of the Printile and limited seimal of quetry critics" so of view ".

1927, deciding that Julin Jay Chopunn was "one steet writers and one of the must intelligent stages of his generation", he still criticizes him content in remain u little of an unuteur del fulfilling his putential as "a reol lender West". Writing to Chapman he remarks: mpathize with your onslaughts on the scholors do think that io your first chapter you de loo sweeping ".

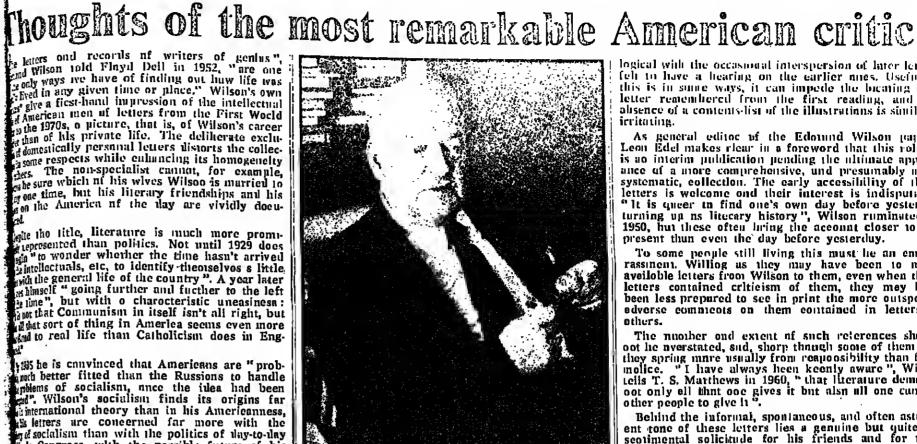
ar points could be made about Wilson. His altack in the late 1960s on the work of the ler Editions of American Authors-" these ecidemic editions" which exhibit "the some tisse and discrimination that has come largely leate the academic field of American literature intemperate. It was as clear at the at is from these letters that the attack was hy ding for a rival scheme) or impersonal, but too deny the conventions and the courage that

tiers to Fredson Bowers in this volume bluntly n retract the published accusation that Bswers literary discrimination, but they do so with seen courtesy, while relentlessly insisting on stations of Bowers's "interest in literature ss

of own Interest in literature as such and his discrimination are beyond question, but his method could be distinctly unschularly. Plan-"Axel's Castle, o chapter no Valery, ho asks Cowley about some articles he had translated suppose I ought really to read the

anomber of oceasinns he thanks Gauss and others feeting his mistakes or saving him from errors. More revealing is his hesitatiun, in 1928, over about Sacco and Vanzetti "Decause I am so but matters demanding research ". Yet how many far more ralous in research, chuld produce, bell a Century, judgments as penetrating se des 100 the literature of the past, let alone on ive writers of their own day?

on Literature and Politics, 1912-1972, by Wilson, selected and edited by Elena Wilson, d by Routledge & Kegan Paul at £12.50.



Dennis Welland reviews a collection of the letters of **Edmund Wilson**

The courage of his convictions gives Wilson en ssuronce that sounds like errogence. At the ege of 27 he can osk H. L. Mencken, 15 years his senior and an established writer, "By the way, why do you olways use 'jejune' os if it meont 'juvenile' or 'callow'? This has been worrying me for years". As early as 1923 he is urging Alien Tate tn "try tu get out of the artistic clutches of T. S. Eliot", and in 1930 ha reproaches R. P. Blockmur for having "never quite mastered s solisinctory expository style" and eltempting to be too terse: "I wish that you would take more words and say what you mean more exactly ".

Antheratically dugmatic as his strictures may sound there is the same shortness of perception in many of the letters that distinguishes his published work. It 1922, after roading a proof copy of The Wasts Lond, he tells John Peole Bishop that it "Is nothing more ar less than a most distressingly moving occount of Elint's own agonized stoto of mind during the yesrs which proceded his nervous breakdown".

Impressed by Miss Lonelphonets from the start, and by Nuthmiel West's personality, he eucourages Maxwell Perkins to publish A Cool Million when others are rejecting it. In 1948 he recommends Faulkner's novels to Nabokov: "Of course he has no message... is merely interested in dromatizing life. lo spite of his carelessoess, I should think he would be rather congenial to you... I think he is the most remarkable American novelist"

About Hemingwoy he is less convinced. He compsres him to Theodors Roosevelt for "trying to live up to the myth of the two-fisted American unsn of up to the myth of the two-fisted American msn of action" by adopting a "bogus public character this moment there was publicity in the offing": this, however, he sees in a different light after Hemingway's death had disclosed the diseaso with which he had struggled for so long. To Hove and Have Not Wilson dismisses as "Hemingway's Popeyo-the-Sallor covel" and "mostly lousy", but he recognizes at once and enthusinstically the quality of the short stories that followed it.

Yet, writing to Gertrude Stsin of Scott Fitzgerald, shortly sfter Fitzgersld's death, Wilson agrees with her "that he had the constructive gift that Hemhigway doesn't have at all". Here, as so often in any volume of letters, it would be informative to have the other of the correspondence so as to know exactly what side of the correspondence so as to know exectly what "constructive gift" was under discussion.

The latters here, of course, are exclusively Wilson's, and in preparing them for publication his widow Elena has deliberately kept to a continuum all aditorial intrusions. Such extreneous colomentary as there is (to introduce, for example, a particular correspondent) is judiciously taken from Wilson's published works and no attempt is made at a connecting narrative framework. The laiters stand well on their own and Mrs Wilson's reluctance "to emulste Who's Wito" is underwilson's rejuctance to emulsite whos who is understandable, but for many resders, especially in the future, an sppeodix identifying a little mora fully soms of the dramatis personae would be hislpful. So would s list of Wilson's correspondents, for the index does a differentiate harveen a letter to a person and a s list of wissin's correspondents, for the index does not differentiate between a letter to a person and a reference to that person in a letter to someone else. The arrangement of the letters is broadly chrone-

logical with the occasional interspersion of later letter . this is in some ways, it can impede the locating of a letter remembered from the first reading, and the alisence of a contents-list of the illustrations is similarly

As general editor of the Edouard Wilson papers, Leon Edel makes rlear in a foreword that this rolume is an interim publication pending the ultimate appearance of a more comprehensive, and presumably more systematic, collection. The early accessibility of these letters is welcome and their interest is indisputable. "It is queer in find one's own day before yesterday turning up as literary history", Wilson ruminated in 1950, but these often bring the account closer to the present thun even the day before yesterday.

To some people still living this must be an embnerassment. Williog as they may have been to make aveilable letters from Wilson to them, even when thuse letters contained criticism of them, they may have been less prepared to see in print the more outspoken edverse comments on them contained in letters to

The muother and extent of such reterences should oot he nyerstated, sud, shorp through soone of them are, they spring more usually from reapoosibility than from molice. "I have always been keenly aware", Wilson tells T. S. Marthews in 1960, "that literature demands oot only ell that ooe gives it but also all one can get other people to give it.".

Behind the informal, spontaneous, and often astringent tone of these letters lies a genuine but quite un-scotimental solicitude for his friends and for their writings. When he thicks they are fulling short of their best he seys so with a fairness that makes the praise that he bestows at other times the more volumble. Ideological sympathy with John Dos Possos, for example, does not prevent his recovering Dna Passos's characterization and the unrelieved gloom of his firtional world: he did it publicly in 1929 in "Dos Passos and the Social Revolution" end here he does it mare fully but with equal cambour to the author's fece, and egain constructively.

Dos Passos and John Peale Blshop consistently bring out the beat in Wilson as a correspondent. The letters to Scott Fitzgerald, though good, are less remarkable. He is at his most genial with his women friends—Edne Vincent Milley, Elicor Wylie, Louise Bogen, and Helen Muchnic-but perheps the most surprising series ore the letters to Ailen Tete.

Tate's Southernness, his academic offiliations, his connexians with the Kenyon and the Semmee, and ultimotely his conversion to Catholicism all exploin Wilson's reference to "our unusual leathing of one another's views". There are misunderstandings, tenslous, reproaches, and overt dissent from some of Tate's critical judgments. "I em much more of a journulist than you", Wilson tells him, and taunts him about Ransom and the New Critics.

Tate's convorsion provokes gibes that go beyond good-natured tensing ond, uncharacteristically, beyond good taste, and Wilson's romorks about Tate to others sra ofteo waspish. Yet, whotaver their differences, they shars the rasponsibilities of the msn of letters in the modern world ond s conscientious preoccupation with standards: It is this that makes them such valuoble stimuli to esch other.

Wilson's description of himself as a journalist reflects, of course, the extraordinsrily eclectic range of his interests. By the 1960s he was complaining of the burden this imposed: "I am inuodated with books and papers on psychoaoalysis, the Bible, the Dead Sea scrolla, socisliam, the American Indians, the Civil War, Scrolla, socistiam, the American Indians, the Civil War, Csnoda, Jewiah history, the Symbolist movement in literature, the Soviet Union, nod Hungary. I wish sometimes that I hado't been so vnrlous." He was also wishing that reviewers would stop describing him as mallowing: from the letters it is quite clear that ha

From the letters Wilson emerges much ss one expects: throughout this period his was one of tha most independent, perceptive, and stimulating minds on the literary scene—"tha morsi and intellectual conscience of his generation", Daniel Asron calls him at the end of his excellent introduction to the present

The letters underlina the essential Americanness of ace, and not only in Wilson's reitersted pride in being reisted to Cotton Mather. He believed, in the 1920s, that in another generation or two Americs would have completely taken over from Europa the intellectual lesdership of the world, and his letters throughout these 60 years dwell levingly on any support for this theory that he finds. His vieits to Europa after the Second World War strengthen simultaneously this considered and his inscribility at the new American conviction and his irsscibility at the non-Amarican West, political and cultural.

There is in his cosmopolitsnism an insularity that approaches chauvinism, but his ridicule of Dos Passos's enthusism for Goldwater and Agnew restores the per spective. Behind what looks like prejudica, thore is usually with Wilson an informed, rational, but deeply-beld cooriction. Naither his nor his influence ought to e underestimated.

The author is professor of American literature in the Department of American Studies, Manchester Univer-

IAMES A. BOON

SHELTON H. DAVIS

Rural Kano 1900 and 1970

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Reviewers

Contemporary Literary Critics edited by Enter Borklund is e redited guide to the most impotent ference guide to the most impotent ference guide to the most impotent century and ioflucinal twentieth century callon el Bradford University. Anthony Kelly is lecturer in the deportment of French and Lallaur at Raytec University. Anthony Kelly is lecturer in the deportment of French and Lallaur at Raytec University. Potrick Perriodec is lecturer in English at Receding University. Potrick Perriodec is lecturer in English at Receding University. Robortson Professor of Commonwalling uf studies of the entrant as ing uf studies of the entrant as in th

METHUEN (D)

An anguiry into the origins of nations end the politics of nation-

Nationalism is a world-wide phanomanon which has been responsible for as much misery and upheavat as it has brought culturel enrichment and liberation of the spirit. This book is the first which takes and compares examples from dillerent periods of history and from most parts of the world to an attempt to explore the processe by which nations have been formed, or nationalist movements have grown, seeking not to dany the majoraness of each but to suggest parallels where these seem to exist.

The Political Thought of Hannah Arendt

'Margaral Canovao's book is most things a good introduction ahould be. A coocise biogrephical skatch, and a rather longer introduction to Arendi's mennar of thought precede a classify situation of the structured europy. Dr Canoven comfortably selects the major fastures of Arendi's thought without losing the coherence of the whole when she cloops to polot out its detail.' Tacching

The Underground and Education

. . . e bieve ettempt to aasese tha educational philosophy of the undarground press... perceptively written and pleasant to read. Those Educational Supplement.

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JOHANNA TURNER
This book is offered as an eld to people who are learning inemasives and helplog other people to learn: that is, to parents, eludants and particularly to leachers. The activity of issching, to be successful, requires the teacher to understand the behaviour of the learner as tully as possible. Some of the insighte into human behaviour gelned by psychologiste may prove helpful to the teacher to complementing his or har experience and lotuilive undetalending, and it is with this in mind that the topics covered in this book have been selected.

A search for a natural history of human knowledge. KONRAD LORENZ

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ELIZABETH M. ANDERSON and BERNIE SPAIN

problems essociated with this condition.

. combines a care general wisdom with detailed ensive and information. Sunday Times.

. cannot lell to become the definitive general text on childhood spina bilida. New Stefesmen.

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This is not a book ebout Bloomsbury, lesblenlem, medness or eulcide, but is a much-needed introduction to Virginia Woo!!'a nine novels, written in the hope of turning eltention beck from the lile to the tictional work.

the lile to the tictional work.

'., offers come obsorbing and well-aupported idea lowerds a finer eppreciation of Virginia Wooll's ent end intellectual alma.' Times Educational Supplement.

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This is a deceptively important heads in operation of its modest objective, "Major Giending and conceptually". In the work of the modest objective in the potential of the modest objective in the potential of the work of the work of the first of the own to distance of the work of synthesis, which octeoprise the many increase of the work of synthesis, which octeoprise the work of synthesis, which octeoprise the many increase of the work of synthesis, which octeoprise the work of synthesis which octeoprise the work of

work for himself.

As it axpands, the literature of act has increasingly become the subject by serious study and if it were not for the possibility of going back to source—the srt itself—there would be many incestuous dangers rides wall above the danger less the accountibutes a complex exposition which not only offers much for the going back to which not only offers much for the going account of the going back an exemplar for those who seek to rimblae literary and visual disciplines.

Bortralt of Zola the man, in whom extrame introversion combined with a fertile imagination. These elements find expression in his writings in the form of "morbidly gloomy or hotty sensual scenes".

Hemmings apeculates on the fascinating subject of Zola's myopla, which may bave contributed to the hazy imprecision of some descriptions in the oarly Rougan-Mocquart novels, and may, as a kind of composation; have contributed to the people of the provided that it is a subject of the p

In tracing the impact of Goya Glendinning pays due regard to the protecticallities of avoilability end the condition of original work elthough in a study of this size it is not possible for, tim to track the provension of works in any detail. It is, however, the range of Glendinning's skills end curlosity which makes this study impressive for he is not only sensitive to and knowledgeable about language and literature but also displays an astute and careful visual. Sansibility which demonstrates that he has looked at Goyo's As it expands, the literature of the buried stresses of bis own tormented split and to the buried stresses of the volcanic age in which he lived".

We follow the evolution of Zola the overline of this episodo and is obvious, but that this episodo and is obvious, but the traing the evolution of Zola this episodo and is obvious, but that the provence to lost illusions in Peris; for a resuling the evolution of Zola the self-limited the volcanic age in which he lived".

We follow the evolution of Zola the self-limited the volcanic age in which he lived".

We follow the evolution of Zola this episodo and is obvious, but that training the received to its provence to lost illusions in Peris; for a resuling the training of the volcanic age in which he lived".

We follow the evolution of Zola this episodo and is obvious, but that this episodo and is obvious, but that this episodo and is obvious, but that the provence to lost illusions in Peris; for a resuling the time to the buried stresses of the volcanic age in which he lived".

We follow the evolution of Zola the evolution of Zola this episodo and is obvious, but that this episodo and is obvious, but that this episodo and is obvious, but that the provence to lost illusions in Peris; for a resuling the provence to lost illusions in Peris; for a resuling the provence to lost illusions in Peris; for a resuling the provence to lost illusions in Peris; for a resuling the provence to lost illusions in Peris; for a resuling the provence to lost illusions.

Peter Fitzgerald unusuel emphasis on olfactory elements. His visual deficiency

riemmings apeculates on the fas-cluating subject of Zola's myopla, bis age and his great it which may have contributed to the achievements. Finally, he is

Thus, or well or presenting details of the authora life in extremely randable narrative in are a greet many stimulating ments on his work. Hemmings written a methoric asset on the internal control of the state of hazy imprecision of some descriptions in the early some descriptions in the early sought may as a kind of composition, have contributed to the unisual emphasis on olfactory.

RURAL SOCIETY

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Lit crit



A tract against determinism

A tract against determinism

Franch Actor

F

Reactions

Despite the difficulties in comprehension created by the dry hunnour and rapid delivery of Professor J. F. Allen's commentary, his film Superfluid Helhout, mada at St Andrews University, was among the most appreciated. It contains exceptional sequences of some magnificently filmed expetiments, conducted in very constrained condi-

Marmosets from a film, Behavloural Repertoire of the Common Marmoset, available for asle from the Higher Education Film Library of BUFC.

BUFC has 30th birthday

TILM an Market Committee of the Committe

Patricia Santinelli

numerous acadomics and Institu-

The BUFC is a unique hody with an counterpart in Europe or overseas. It was set up in 1948 at the instigation of some Cambridge lectutere, with a geant from the British Film Institute, to serve as a teptosentative body and forum in a teptosentative body and forum in the serve i The BUFC is a unique hody with

which to exchange views and expericance about the use of film in sli academic disciplines.

Its objectives are to promote the collection and dissemination of lalorntation, and suitable films for teaching and cuscarch and to cooperato with universities and similar bodies in other countries.

Mrs Yvonne Renouf, discector of BUFC, who is lesving alter spending eight years at the council, says that its rola has not changed very much in the 30 years since its inception.

It is alli serving the very special aneeds of teachers in this field, which computered a lutterests have

moset, available for asle foom the Highec Education Film Library of BUFC.

Same of the questions we sought common to were: how serious was the "language berief"? Were the "language berief"? Were there significant differences in subject matter taught, in presentation of techniques for example, or was the apparent lack of information and opportunity to view?

The Reactions to the films were varied and constructive. On the intended and proposition of the every flus sequences are shown and opportunity to view?

The Reactions to the films were varied and constructive. On the intended and constructive. On the intended and the Elmi is not so exhaustive and the Elmi is not so exhaustiv It is in this latter eren thet BUFC is particularly proud of its achievements. In 1973 its overages membership was till, now it covers Australia, Canodo, New Zealand, Kuwalt, Nigaria, Iran, Malaysia and Hoagkong and Europe. This is particularly reflected in subacriptions

by the newsletter, 53 per cent of which come from overseas.

Young Remail believes that this growth is because England is one of the few Western countries where experience in educational techno-logy has been widespread in higher education. The council has been recognized as a point of comact for foreigners.

There is still no single organization oble to endertake the necessary dissemination of information on un international basis", Mrs. Renouf said.

Next yeet the British Universities Film Council celebrates 30 years' promoding audio-visual media in higher education. This birthday will also mork its continued success as a catalyst and point of contact for

Moreover, lecturers and producers lu this country are auxious to leurn from colleagues abroad of new tech-

films in physics, blology and chemistry. There are already phos-

grouping of materials to be chosen remains a problem.

Much has also been schieved by setting up film and videoupe screenings which have now become regular events. These have covered biology, medicine, physics, engineering, history and, last month, biochentistry. This last differed from other occasions in that staterials were that only introduced by their makors but ware also discussed in a special session at the end of the day. Next yeer a single subject screen-

special session at the end of the day.

Next yeer a single subject screening in archéology is to be held at Birmingham University in conjunction with the Council for British Archeology.

A completely new move is also being planned by the BUFC when it finally settles in new premises at the British Film Institute. It hopes to establish an Audio-Visual Reference Centre where academics and producers will be able to preview material produced in institutions of higher education free of charge.

charge. The BUFC, however, is not com placent about any of its prajecta, it still believes there is a greet itaal

Editors: ALVIN W. GOULDNER, Editor-in-Chief, St. Louis, ERVING GOFFMAN, Philadelphie, DEREK PHILLIPS, Amstardam, PAUL WALTON, London, ROD AYA, Amsterdam, ANTHONY GIDDENS, Cambridge, U.K.

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scriptions and polished enocodors, than haples author; two artunous down by page 50.

As I read this book I was constantly trying to work out why it irritated me. Perhops it was unknown could save his shet tered carear.

The Coutemporary Sociology of the School series has so far beau better ithan this, and the ellion of the sarles, John Eggleston makes a good contribution with its series in the series of the School series has so far beau better ithan this, and the ellion of the sarles, John Eggleston makes a good contribution with its series in the series of the section of the sarles, John Eggleston makes a good contribution with the series of the section of the series of the series of the section of the series of the section of the series of the section of the sect

out-of-date precapts.

Lacey's The Socialization of chers contains some makes of interest, but is more limited scope than one would have scope than one would have being based principally, though entirely, on the author's own entirely, on the author's own entirely, on the author's own embark on a vigoroos and astrong embark on a

was ego Professor Thorold the construction of the subject at the s

and its completion would have been in the interests of scholars for ever.

Unfortunately, Important or unique enterpriacs do not always secura finaucial support. To begin with the Social Science Reseatch Council helped, but it dropped out in 1973. Then University Collage provided support between 1973 and 1975 but finally dropped out too.

For the last eight mooths of this time the collega had worked in conjunction with the British Universities Film Council, an admirable body which has done mote than any uther group to the country both to use and to study film, but in 1975 it, too, recognized that while it could hald all the register's assets it could hald all the register's assets further compilation.

Whet it did do, instead, was to set up e working party, which has just to advise on further development. The working party to raview the functions of the register and the functions of the register and the functions of the relevant bistory and identifies all the main problems end opportunities that problems end opportunities that the register should had the resister should had all the relevant bistory and identifies all the main problems end opportunities that the register should had all the resister should had all the relevant bistory and identifies all the main problems end opportunities that the register should had all the resister should had all the relevant bistory and identifies all the main problems end opportunities that the register should had been to determine the final the relevant bistory and identifies all the main problems end opportunities that the register should had all the resister sh

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Alec Hughes

layman

tion from

Full being Video-Arts recent The Balance Shreit Barrier, And Concord Films Cunneil distributes Thanes Television's programme Limits to Growth, which presents the main features of the famous study of the Club of Rome. But it is really television, with programmes like The Money Programme, to which one must look for general economics than is possible with a conventional studies.

However, when it comes to the technological aspects of industry and the human environment in which industry operates, then film has plenty to offer. There are innumerable films sponsored by industry almost either at pressive table. Given our corrent concern obout our industrial economy and the attitude of many young people towards it, there seems ou obvious role for film to play both in providing differment about a whole ronge of industrial shoutions end in encouraging an imaginetive attitute to some of our economic and social problems.

Despite the vest number of films of industrial life—bethey the down-to-earth studies of confining or a chilling look at their are specialist, such as fiMi's serios on Finnaco in Europe. There

conprehensive; broad problems of comprehensive; broad problems of commics rarely feature. True there are specialist studies intended for the non-specialist, such as IIMI's series on Finance in Europe. There have been o few attempts to present compony finance to the layman—the most notable and success-

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Educational Technology.

THE ROYAL

than is possible with a conventional one; or At work on a Cushion of Air (Central Film Library) to show how the hovercraft principle has been applied to tasks as varied as rorrying pipelines over waterlogged granual to removing an aircraft from a rough outfield or replacing the conventional hand trolley.

Tapes from

of the body

A unior problem facing doctors in hospital today is the enormous quantity of information generated by sophisticated recording apparatus. Medical technology has until recently been more concerned with increasing the speed, accoracy and rongo of diagnostic measurements than with methods of presenting the results in a form which is capalle of heing assimilated by the physician.

One such field is electrocardingrophy. Simultaneous records may now be taken from os many ns 12 leads minched to different areas of the budy and tha modysts of the budy and tha modysts of the budy and tha modysts of the budy and the modysts of the budy and faviguing. To lighten the load tho aid of the digital computer has now been entisted and this film computer assisted ECG interpretetion produced by the University of Glusgow Illustrates the system in use at the Royal Infirmary, Glusgow.

Techniques for tha tape recording of the three orthogonal lead ECG are shown in detail and contrested with the conventional marhads for recording 12 leads sequentially on a single channel electrocardiograph.

The efficient use of the system

12 parts

P. N. Cardew

scheme in Romania, Wimpey's Flaminda and Costain's Rain from the Danahe, not only slave the possibilities for cooperation between anglesce of coiperation between clear definition of objectives a ssessment of the problems overcome in arhieving them cooperation at all levels bay an understanding of the alt englicers of quite different econn-nic and social systems and the application of their system to a

as n whole.

Application of their system to a price of course how effective technology is, depends ultimately on how well it is managed; and the officiency of any organizations.

As n whole.

How shocklog, therefore, to shop to yet the premiere of a film spottant the premiere of a film spottant the premiere of a film spottant the British Oversens Trade Bott formering television after the grant general to go a film spottant the state of the premiere of a film spottant the British Oversens Trade Bott formering television after the grant formering television afte

conventional hand trolley.

Such films have both o foscination inherent in their subject and provide a stimulation to original thinking, indicating assumpting of the intellectual axcitement that some aspects of technology can offer. If you want to show more exour aspects of technology then there are a number of interesting films. The National Coal Board's Remote Control and Monitoring (intended for its managers but use of the sophisticated devices which laye transformed unining from its pick and slovel doys. While two studies of the supplication of conputers of the supplication of conspictive we should have a sense of responsite to show how our economy to show how our economy to show the drownlight of the supplication of conspictive we should have a sense of responsite to show how our economy to show the drownlight of the supplication of conspictive we should have its assumption of the supplication of conspictive we should have a sense of responsite to show how our economy the gurgles from the drownlight.

Rellowships & Studentships

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Libraries mark

Centenary

Loughborough University is the branching the centenary of the Library Association with a film of "libraries and the Componity", which shows that ilbraries in British provide more services than most people know about.

The 16min colour film is besed on mi idea developed by student in the department of library and information and is nined not only in the department of library and information and is nined not only in the department of library and information and is nined not only in the department of library and information and is nined not only in the department of library and information and is nined not only in the department of library and information and is nined not only in the department of library and information and is nined not only in the department of library and information on the sine of not only in the department of library and information on the sine of not only in the department of library and information on the sine of properties and invented to the only in the department of library and information on the sine of the only in the department of library and information on the sine of the only in the department of library and information on the sine of the only in the department of library and information on the department of library and libraries and libraries but else and information on the sine of the only in the sine of the sine of the only in the sine of the sine of the only in the sine of the only in the sine of the sine of the only in the sine of the sine of the only in the sine of the only in the sine of the on at schools and dibrarians but elso at schools and colleges for cateri-work. It moves from the invented of printing to the way specialised research needs ore met to the sale rerisity mult medical librates. (16mm colour film with optical sound, duration 12 mins, her 110 per day, pricu £50, apply to Awië Visital Aids Unit, Loughborough Lilliversity, Loughborough Lilliversity, Loughborough Lilliversity,

The Itemery Centro for Forecaster's film Path to Prosperity which emphasizes the importance of profit for the sorvival of industry, his time been seen through the graft aid of the Cominus Foundation by several colloges such as Elesare Cullego, Shropshire, Henderson Technical College, Tameside College

cal College.

The film explains that manufacturers odd value to the ray more rials they buy—a concept indising by some of the interviews shown in the film, not easily comprehend the film, and easily comprehend the film (Available from Training Films International Ltd. 2011).

16mm colour film, hire charge for the price £250, St Mary's Street, while church, Shropshire.

o comment if he wishes. It is surely this last inctor, the retention of the human element, the capacity to add the feculty of imagination to the twenty thousand words of instruction programmed into the computer that is so vital to retoin, if the individual patient and his problem is not to become a set of measurements destined to be fitted in to a programmed slot.

Industrial forecast

of Technology and Cornwall Technical College.

The film makers affer fram this lack of imagination by following a too well tried formula in which a commentory is composed containing ell the facts to be put over and then some visuals are shot to illustrate the words. The result is a lecture read from a carefully prepared script with some animated lanters slides in the background,

Maths, bees and infinity

David Singmaster

Rocently the London Marhamatical Society hold a maeting devoted to Though the ideas are almed at 16 L representing a wide variety of tried to convey these to an even sources, taching is and levels. Several of these have not been widely seen in the basic ideas of countability and line continuum. Though the ideas are almed at 16 L representing a wide variety of tried to convey these to an even younger audience. Consequently widely seen in the basic ideas of the presentation of the basic ideas of the presentation and there seemed to be some in

dom, notably Mothamotics of the Honeycomb, Infinity, Powers of Telt ond Tangrom.

Mothematics of the Honeycomb abows how the hexagonal cell of the cells of a boneycomb minimization wax required to construct the film is almed at about fifth/sixth forms, involving oa lit does only some solid geometry and of loterest to onyone at undergraduato of countability and lite continuum. Though the ideas are almed at 16 it is year-olds, the presentation younger audience. Consequently

dom, notably Mothamotics of the Honeycomb in the consistency between the levels of the consistency between the levels of the content and the presentation.

Powers of Ten is ectuelly a skelch for a film which was never made. Charles Eames, the designer, hat made o nomber of films on mathematic tries to convey a feeling far order tries to convey a feeling for a film which was never made. Charles Eames, the designer, and in this film should tries to convey a feeling for a film which was never made. Charles Eames, the designer, and in this film should tries to convey a feeling for a film which was never made. Charles Eames, the designer, and in this film should tries to convey a feeling for a film w The author is in the department inothermalical sciences and compains at the Polytechnic of The Soul

plications are invited for the above statutory at Splary scale £6,394x(10) £8,491. Marriago and many allowances are also payable. Closing data for the test of applications 27 JANUARY, 1978, where information may be obtained from the spare.

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I Britophese In Psychology—To teach courses in Psychology Prame, Fluori Chineau is desirable.

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Medical School, London University.

University College Galway, Ireland

Lectureship in Mathematical Physics

BRUNEL UNIVERSITY

HEAD OF THE DEPARTMENT OF APPLIED BIOLOGY

The Depertment le unueuel in thet il covers the lields of zoology, botany, microbiology, immunology, phyelology end snicmology. The undergreduela course, which is of the thin eendwich type, le correspondingly broad. The first yeer and moet of the second yeer ere elso common to the undergreduele course in the Depertment of Blochemistry, lite combined undergreduets inteke being about 59 per yeer. The person appointed muel therefor have a very wide interest in the teaching of biological subjects and will be expected to coordinate and develop the course in a broad mannar. There are already flourishing research groupe in the department with special interests in immunology, microbiology, antomology and phyelology; and there is also a alrong research group in the Blochamietry Department. The person appointed will not necessarily be expected to set up a lerge new research group, but must be able to give support and encouragement to the research work in pro-

grese.
The Depertment is else involved in the teaching of post-grediate courses for masters' dagrees in immunology, weed biology, anticommental polition solences, brein eludies, and epplied cell solence

aciences, brein elitides, and epplied cell science end virology.

The Deportment combines with that of Blochemiatry to form the School of Biological Balances. The School is eutonomous, with the own budget end nilocation of supporting stell, and the Heede of Deportments are inevitably involved in its edministration, it is theratore essential that the person appointed should be interested end competent in this aspect.

Selary within the proisecoriel range. Further details are available from Assistant Sacretary (Establishment), Brunel University, Uxbridge, Middlesex, or telephona Uxbridge 37188, Ext. 49. The closing data for applications is 27 January, 1978,

UNIVERSITY OF

ZAMBIA

SCHOOL OF NATURAL SCIENCES—LECTURER IN

MICROCIAL GENETICS no

Applicants should have a good first dagree in Otological Sciences and a research degree (Ph.D. or orgativates) in the appropriate discipline. The appointed will be expected to tasch and develop a programme of instruction for B.Sc. and M.Sc. sudents and carry out research, participating

B.S. and M.S. undents end carry out research, participating is the general curriculum of the Department: Select Scales K4.848.65.02 p.s. (21 sterling equals K1.41). The British Government may supplement salaries in range 12.220-12.904 p.s. (sterling) for married appointies and £330-£34 p.s. (sterling) for single appointies (mylewed annually and normally free of all tax) and provide chilsiren's education sitowances and holiday vielt passages. Family passages, various silowances, supersonusition, medicat aid science said regular oversess leave. Detailed applications (two copies) including durficulum vitto and namics three referees about to sent simuli not later than 17 familary, 1975, to Registrat. (eleversity of Zambis, PO Box 2119 Litesko, Zambis, Applicants resident in U.R. should also send one copy to Inter-than Court. Read, London, WIP OUT, Further, particulum may be obtained from either, address,

BAYERO UNIVERSITY

NIGERIA

Applications are invited for the posits of PROFEGGOR AND LECTURER IN OSPARTMENT OF OEOGRAPHY Applicants chould be cultobly qualified and heve relayent experience. Applicants for the Locturechip chould have specialization in either Urban and Rural Plenning or Hydrology/Climetology, though concideration will be given to those specializing in other fluids. Appointes to the professoriship may, at come sleed, be especial to setume the dulies of Head of Oepartment. Getary soutes, Professor N11,283 to N12,420 p.s. (20,348 to £10,225 p.s. sterileg!) Lecheron N5,480 to N0,984 p.s. (£4,627 to £5,916 p.s. sterileg!) (£1 steriling willing the N1.18) There may be supplementation of astary for married appointess to Professorably of £2,150 p.s. sterileg! (£1 steriling will possesses) of the N1,581 p.s. sterileg! (£1 steriling willing the special provision of children's education allowances and holitary visit pessogs. There will not be supplementation for single special possessorship or to sny oppointess to the N1,581 p.s. sterileg! (£1,500 p.s. jisting) pessogs. There will not be supplementation for single special pointess to provision of children's education allowances superannesiton or graity oppointess to the N1,581 p.s. sterileg! (£1,500 p.s. jisting) pessogs. There will not be supplementation for superannesiton or graity oppointess to the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation for superannesiton or graity oppointes to the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation for superannesiton or graity oppointes to the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation of the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation of the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation of the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation of the N1,500 p.s. (£1,500 p.s. jisting) pessogs. There will not be supplementation of the N1,500 p.s. (£1,500 p.s. jist

UNIVERSITY OF NATAL **PIETERMARITZBURG**

Department of Geology Applications are layited from suitably quelified persons for appointment to the post of

ploted semesters is refee belt conditions are currently under review). Appointment will be on a contract bods for a maximum of six years in the tirst instance. The University reserves the right to reake as appointment of the make on appointment by invitation at any stage. Applications, in deplicate, about include particulars of age, uniforably, matter status, family if any, qualifications, experience, preset post and the manues and addresses of three referees from whom enartidential enquiries can be made. Further information will be forwarded to all applicants. Applications should be sent before 35 January, 1978, to the Registrar, The Papus New Oulnes University of Technology, P.O. Box 793, Lee, Papus New Galines. A copy of the application should also be sent to the Association of Commonwealth Universities (Apples.), 36 Oardon Square, London Wellt OPF,

LECTURER

Applicants should preferably have specialist interests igneous Petrology. The salary scale attached to the post is : R6,300x360—R9,180 plus 10% pensionable allowance per enoun,

The commencing solary notch will be dependent on the quelifications and/or experience of the successful applicant. In addition, on ecoual vacation savings booms is payable, subject to Treasury regulations.

The pulley of the University is that all persons, regardless of sex, religion, race, colour or mational origio, are eligible for appointment.

ror appointment.

Application forms, further particulars of the post and information on pension, audical aid, staff bursary, housing foan eod aubsidy scheous, long leave coodificin and travelling expenses on first appointment are obtainable from the Registrar, Uolversity of Natal, P.O. Box 375, Piotermaritaburg, 3200, with whom opplications, on the prescribed form, must be lodged not later than 21st February, 1978, quoting reference PMB 56/77.

LONDON TITE CITY UNIVENSITY OPPARTMENT OF MATHEMATICS

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KING & COLLEGE LECTURESHIP IN THE STUDY



Applications are invited for the following poats, tor which applications close on the data shown. SALARIES (unless otherwise stated) are as loitows a Protessor \$A.59,748; destor Legiurer \$A.18,675 to \$A.22,256; Legiurer \$A.18,522 to \$A.22,256; Legiurer data!; conditibes of application and application form, where application, may be obtained from The Association of Commanwealth Universities (Apple.), 98 Gordon Square, London WCIH 6FF.

University of New England, Armidele, New South Wels LECTURER-DEPARTMENT OF SOCIOLOGY

Applicants should have a Ph.D. io Sochilozy and teaching, and respects experience in the discipline. Mure than una specialization is desirable and whilst walcoming applications from those combioing Sociology of Health and Medicina, or of Migration, or of Social Welfare and Social Physiology with snorth-specialization, the Department would be listerated in applications from those with other tibules of Interest in Sociology. Sociology. January 17, 1978.

LECTURER— DEPARTMENT OF DRAMA

Appaintee will be requirelible for second year Drawn covering the history of Drawn and development of Theorie Practice from Classical Greece to carly 19th Content Practice from Classical Greece to carly 19th Content to waif qualified to practical and scademic aspects of Drawn. Prefection given to candidate with knowledge of Theorie Practice is different cultures, and direct experience of professional theater. The position is additional to the lomporary kelurodisp picciously alvertical.

Monesh University

CHAIR IN POLITICS Applications are finding for appointment to the third sheir in the Department of Politics. The Department of Politics. The Department of Politics. The Department of Political Thought in one of two principal fields: The Heavy of Political Thought; Modern Government and Institutions:
The toecessful candidate wift be distinguished both by his locensitional signaling and by the breadth of his schudary loterests in the total of his schudary loterests in the total of politics.

PROFESSOR OF SOCIAL WORK lications are invited for the secondity of Sucial Work. reassurant of spent work, which has become vocast tollowing the reffrement of Professor V. S. Lewis. The professor strough the distinguished in social work education and at research in social work or other related dissipation.

March 6, 1978.

University of Sydney LECTURERS IN ENGLISH Applications will be welcome in any field of English Literature (Including Australian and American Literature), or le Carly English Literature and Language, January 16, 1976.

LECTURER IN **GOVERNMENT AND** PUBLIC ADMINISTRATION Some preference given to condidates with an interest to Austrollen government and pullities, but not to the exclusion of other good candidates. February 13, 1978.

LECTURER IN ELECTRICAL ENGINEERING Appointed with he asynched to have experience in the tearthing of fetroductory electrical inginerating contrast. He should have a higher degree in electrical ongineering out physics and will be expected to july one of the major research programmes in the School. Some industrial experience destrable. Partitlet details from Professor II. K. Messaria, School of Electrical Rugineering.

LECTURER/SENIOR LECTURER IN **ORIENTAL STUDIES** MODERN ĴAPANESE)

Appointed will be expected to teach within 10-18 nf modern Japanese Eugango one liberolare and to supervise graduate research in madern Japanese. Janaary 6, 1978. LECTURER/SENIOR LECTURER and LECTURER In the

DEPARTMENT of

SOCIAL WORK (Two Positions) One appointes to be responsible for the course Human Behavious and Invitionment and its Integration with the concurrent Sicilat Work Profiles courses: Social Work Provilee courses: will have opportunities to teach in total areas. Second Work opportunities are reacted in total areas. Second Work opportunities are particular to teach in and practice experience needed. Other appolates to teach is like area of the socialogy of social problems with reference in programmes of interception for prevention or trentment. Open its applicants with qualifications out, experience in social work or sections.

Becloings Juanus 13, 1978.

The Queen's University of Belfast RESEARCH **APPOINTMENTS 1978-79**

The following pre available at the University: (e) Two VISITING FELLOWSHIPS for one year renewable, ill any field of study for scholars with experience of research, Salaty in range (under review) L4,607-£6,555. OR £3,333-£4,403, with USS If appropriate.

(b) One EUROPEAN sod one COMMONWEALTH/AMERI-CAN VIETTING FELLOWSHIP for ten months cach, sponsored by the Leverindine Trust for postdoctoral confidence, Salary 12,620 net plus travel costs and marked allowance.

marked allowands.

(c) In the institute of inself studies tone Fill lowsinip for one, year in rango (under revise) £3,333£4,403 with USS if sppropriate and one JUNIOR FELLOWSIIP at a value of £1,500 plus fees, both for Forther, details and epolication forms may be obtained from the Secretary to Academic Council, The Queen's Unit-versity of Boltast, B17 1NN, Northern Ireland.

THE UNIVERSITY DEPARTMENT OF ECONOMICS Applications are to vited for two or more Lecturealing in any find of Ecohomical incitio-ing Economic Hatery. Opera-tions traspercy. Those posts are tomable from October 1970.

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THE UNIVERSITY OF PAPUA **NEW GUINEA**

CHORT MORESHY)

LECTURER / SENIOR LECTURER IN EDUCATIONAL ADMINISTRATION, DEPARTMENT OF EDUCATION. Thu

of the Department of Education.
LECTURER IN PHYSICAL GEOGRAPHY.
The spplicant will be expected to
teach courses at introductory and
odwinged levels. Preference will
be given to candidates with interests in bloqueography, climstulogy, or spplied physical geography. The reporting of the second in bloqueography, physical geography, and men man' his environment. Ability to assist in
courses in geographical techniques,
and some experience in scrimphotograph interpretation; are
desicoble. Experience in the
Pacific or feldwork, and coupment includes a four-wiscel drive
vehicle, bost, and labaratory
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Grade 2 | Kt0,094-K13,023 p.s. |
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Further details and the conditions of appolaiment are svalishin from the Secretary, that 4828, Uniteraily P.O., Paqua New Guines, will whom applications close on 20 Jacoury, 1978. Applicants resident for UK sheald olso seed one copy of oppication to Inter-University Council, 98/91 Tottnoham Court Road, Londae WIP 0DT.

UNIVERSITY COLLEGE OF SWAZILAND

Applications are invited for it LECTURAR IN THE

DEPARTMENT OF GONOMICA
Applicants shauld have minimum
of MA (Economics) with
specialisation in st least 2 of the
tollowing: Micro and Mecroeconomic Theory: Lebour Economica;
international Trade; Public
Finence; Economic Planning and
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Economic History. Preference with
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ANT in the Department of Computer Studies, Main dules will be to said in developing and decumenting before for the Department's NOVA and ECLIPSE minicompulars. Experience of an easembly language would be anyenised. LONDON
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leave, inuising and super-annuation, may be obtained from the Association of Commonwealth Universities (Appts), 36 Gordon Square, Londou WCIH OPF.

Applications close on February 3, 1978.

UNIVERSITY OF

WOLLONGONG

Australia

LECTURER/

IN FRENCH

SENIOR LECTURER

KING AUDUL AZIZ UNIVERSITY This programmo has been developed of the Jaddish came out of KAAU over like has 2 years with Brillish Council professional support and has involved the principle of special and programming for the implementation of Englishmadium courses in the larging of Engineering and Modicins. LECTURESHIP IN **OPERATIONS** RESEARCH

BRITISH COUNCIL

Applications are invited fo the above-mentioned posi-tion in the Department of Ecosomics. Applicants may have qualifi-cations in any of the main oreas of Operations Re-search. Consideration may be given to a visiting or temporary appointment. Neutris: SR 3541 to 4523
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acting SR 1542 to 4523
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cco The salary for Lecturers is on a scale from NZ\$10,585 to \$12,969 per annum. Particulars, including information on travel on removal allowances, stud

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Salary: Sonior Lociurer— 26,638 to 28,350 per annum. Lociurer—26,210 to 27,064 per annum lax fros. Bonefits: fros furnished eccommodallon: overces and children's oblowmores. 1 year confrost renewable. 77 AU Industry fares are paid. Local contracts are guarenleed by the liritish council. Please with briefly solding qualifer lions and length of appropriate separates and length of appropriate the propriate of the propriate of the policies of th

Applicants should have a higher degree is Fuench from a Franch or English appairing university and be listed and securate in both flensh shd English. Apartram sessiting in the general leashing and seministration of the Osgatiment, the appointed will have the particular responsibility at developing courses in aspects of French outlurs history. This is a tenurable oppointment. Further infamelios may be obtained from Prolessor R. B. Leel, Cheirmen, Depailment of Europpeas Languagoe, in the University. BRISTOL UNIVERSITY OF ORISTOL Applications oro invited for the post of PEIIMANENT SERVICE OF THE PROPERTY OF The Union. Candidates should scaterably be graduates, but in arrested a sound administrative back-fround control of the property of safe buildings and sequent of safe buildings and sequent of safe buildings and sequent state or Administrative Biaff, 85,423 to 84,625 per annum | national revision) with supergramment. versity.
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from the Association of Commonwealth Universities (Appla.),
99 Gordon Square, London WC1H
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THE UNIVERSITY
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AND SOCIAL SCIENCE
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CANADA: ERINDALE COLLEGE UNIVERSITY OF TORONTO
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Montreal, Quebec DEPARTMENT OF HISTORING CONTINUED

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UNIVERSITY OF CALGARI Vecancy for 1978-1979 (Subject to funding) Area: Old English: Congonillog; at load) the stars
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CAMBRIDGE

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THE UNIVERSITY Applications are invited for a following new pasts which, is hoped, will be established on Bopication 1, 1970:

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ARCHITECTURE

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LECTURESHIP, ASSISTANT

LECTURESHIP IN

BIOCHEMISTRY.

Applicants from any field of research endeavour will be conaldorrd equely on their marila. A medically qualified appoint to who lus commetted his proregistration year will be appointed in a Lecturer at the minimum point of the scole.

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Further particulars and snott-cation forms may be obtained from the Association of Commonwealth Universities (Aprile 1. 36 Cordea Square, London WCIII off, of the Assistant Secretary, Recruit-ments, University of Hong Kong, Hong Kong.

Closing date for epolications

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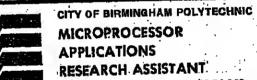
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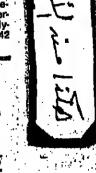
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supplements as appropriate). Responsible for management of the City Art Gallery and five butchgeliefes, and for the City a art collections. The post the senior of the of lios art galleries, libraries and theatres respectively) corporerally involved, under the leadership of the blacker of Callyria Sarvices, in the operation of the City's wide-ranging outtural services. Applicants should paterely have the Museums Diplome and/or appropriate matern and or Historical experience and qualifications. Rither details from the Principal Assistant: Personnel, City of Manchester Cultural Services, Control Library, St. Peter's Seese, Manchester M2 6PD (telephone 061-230 9422,

En.26112621 Applications, stating ogs, qualifications, experience and design past and prosent appointments, present scale and stay, together with the names and addresses of two teleses, should poet the above address by 17th January, 1978.

THE ASSOCIATED EXAMINING BOARD

for the General Corifficate of Education Wellington House, Aldershot, Hampshire, GU11 1BQ

Militaria are invited for the post of CHIEF EXAMINER in History of Art

Wealten. Str. 1, Option 52, Medern Art and it. Origins.

butes will commune immediately as appromunent is made. I necessary, separate appropriate may be under for ruch text and ruch that the first under that conditions they would be prepared to accept the property of the propert property under what conditions they would be prepared to accept approximate.

In appointment, the graduate Art Historians with considerable sching and examining experience of Advanced Livel or about further that it with a specification forms are obtained of directly first the Secretary [A101] at the above addicts, to show considerable applications should be returned within 14 days of the appearance of this advantagement.

DERTFORDSHIRE CATHEDRAL AND AHOEY OURCE OF BARY ALBAN

The souther of Chicarist M. MASTER of the SUSIC Mr. 1978. Details from the Bosa's tertility. The Desacty, to HOME-BASED TUTORS

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RIVERINA COLLEGE OF ADVANCED EDUCATION

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WAGGA WAGGA, N.S.W. AUSTRALIA

PRINCIPAL LECTURER IN PSYCHOLOGY

The appointed will be expected to concluse both academic and administrative loadership in a multi-distription of department of Humanities and Social Sciences. The Capatiment services various programmes including a S.A. Cognes with different majors, including Psychology.

Applicants should be expertenced in University and/or College leaching and research, and preferent may be given to applicants with backgrounds in experimental Psychology, but spilled with significant achievement in other ligids will stand be seriously considered.

BALARY: 3A23,842 per samum [\$14,846 approx].

LECTURER/SENIOR LECTURER IN **COMMUNITY SOCIAL SERVICES**

The College seeks a person with appropriate qualifications in the Societ Sciences to lecture in the community sected Sciences strend of the S.A. [Life Management] cases. This course is a relatively sew development stressing an interdeleptinary approach to social service education. The position will appeal to a person who is innovative and enjoye a chellenge. Applicants should be interested in the vocational discilon of the course, which produces Oradinates to carvice a variety of social seencies. Expolance in all least one camparable egency would strongthas an application. The position could be of infrest to either a qualified Clinical Psychoologist, Courselier, Social Administrator or Social Worker.

SALARY RANGE: SENIOR LECTURER: \$A19,876 to \$A22,986 to \$14,177 approx)

LECTURER

\$A12,593 ta \$A18,262 |27,777 to \$11,698 appros) OSNSRAL

The college expects that the appointers will commence duly by July. 1976, though this is negatiable. An attractive super-simulation scheme to conditionally evaliable to self members and explaines under the House Purchase Scheme is also evaluable.

evalleble. A contribution is made lowerds travel and remaval expenses and seeleded peasage will be arranged where applicable. Liberal sick leave and five weeks annual leave pius leave loading apply, and other service canditions are comparable to similar telitary institutions.

Further latermation and application forms are available from Mr. A. Fortost, N.S.W. Gavernment Cificon, 68 The Strand, London WCZN SLZ, phone 01-888 6651, with whom applications close on 22 Occamber, 1977.

The New South Wales

Senior Lecturer in Accounting

Feculty of Business Studies

Salery \$A19,676-\$A22,955

Institute of Technology

SYDNEY AUSTRALIA

The New South Weles institute of Technology is e corporate institution established to provide a wide range of professional courses for those entering or already employed in industry, government and technological fields.

tielde.

The Feculty of Business Brudies ourrenily offers a Bechelor of Business degree with concentrations in secounting merketing, operations menagement and secounting merketing, operations menagement and the greduate diplome in secounting and the greduate diplome in secounting and the greduate diplome in personnel in secounting and the greduate diplome of greduate in the second of greduate in the near future. Total ourreni governe will proceed in the near future, Total ourreni governe second in the near future.

1977 and it is enticipated that expansion or graduets courses will proceed in the near future. Total current enrolment in the Faculty approximates 2,000 atudents. Applicents for this position must possess a higher degree with a major interest in accounting and should preferably have an interest in the financial eccounting/preferably have an interest in the financial eccounting experience in addition, sound professional accounting experience in addition, sound professional accounting experience in addition carries responsibility for providing academic leadership to the School in appropriate disciplinary areas, and in undertaking specific administrative duites within the School and the Faculty.

Applications close February 17, 1978. Applicants should arrange for three confidential referess reports to serve by the same date. Written applications about include address, pione number, personal particulars, include address, pione number, personal particulars, undertaken, and like names and addresses of the referess confacted. Applications and referess' reports referess confacted. Applications and referess' reports are to be sami to: The Agent General for N.S.W., N.S.W., Government Offices, 68 Strand, London WC2N

BENDIGO COLLEGE OF ADVANCED EDUCATION

CHIEF LIBRARIAN

The Benrilgo College of Advanced Education, recontly formed by the combination of the Bendigo Institute of Tachnology and the State College of Victoria (Bandige), to serve the needs of northern Victoria is speking a well qualified and experienced Chief Librarian.

The appointed will take charge of the College Library and will lead a team initially consisting of approximately thirty professional and other stati. The main respons Ibility will be to formulate and implement policy raisting in the organisation and administration of the Library collection and to the functions of the library.

Applicants should hold scademic and professional Librarianship quelifications and should have had extensive experience, perticularly in the erea of Library Adminis-tration. A lieit for planning and ability to please and maintein good parsonal relations with a wide verlety of persons are important attributes.

The College Council reserves the right to make an appointment by invitation, or make no appointment.

SALARY LEVEL: Chief Libiarian Glods II - \$A25,075

This position was praviously advertised but not filled due to financial circumstaness.

Further particulars are available from the Administrative Ottleer (Staifing), Bandigo College of Advenced Education, P.O. Box 199, Bandigo 3550, Violorie, Australia, to whom applications should be forwarded before February 24, 197B.

Colleges of Education

THE BELL CAPRICORNIA

EDUCATION ROCKHAMPTON-OUEENSLAND-

INSTITUTE OF

ADVANCED

LECTURER/SENIOR LECTURER

IN EDUCATION

AUSTRALIA

Applicants should hold a higher degrae, preferably a decionate, be eligible for membership of the Australien Psychological Society and have a developed interest in at least two of the following ereas; The Psychology of Individual Differences, Learning Disabilities, Social Psychology of the Classroom, Learning and Cognition and Educational Research. Printery end/or secondery school teaching experience is required and tertiary teaching experience, will be an edvantage.

The successful applicant will be expected to contribute to both the Diplome of Tencb-ing (Primery) and the pro-posed Bechelor of Education

Appointments ere normally meds by means of two or three-year contract with provision for renewal or conversion to tanurad appointment.

Current salery scale : Lecturer \$A12,594-\$A19,262 ; Senior Lecturer A19,674-A22,956. Closing date for receipt of applications, 5th, Jenuory, 1978. Applications, Including curriculum viteo endinence of three referees, should be sent to:

Official Sacretary, Agent General for Queens 392-393 Strand, TONDON, WCZR OLZ,

EDUCATIONAL TRUST SAFFRON WALDEN INTERNATIONAL COLLEGE

requires as soon as possible qualified teachers of English as a Foreign Languege Ohres posts). Applicants should have a fegree, professional qualification and experience of EFL, ideally with ESP.

Additional qualifications would be an interest in the Social Sciences. Drame, Music, Literature and the Visual Arts. Teaching experience at tertiory level would be an advantage for

Salarica Burnham Lectures (£2,913-£4,869), Applications to The Principal, Saffroo Waldee International College, South Road, Saffroo Walden, Essex, Chill 3DP (Telephono Saffroo Wolden 22918).

Classified Advertisement copy for the issue of December 30

must be received by 10 a.m.

Thursday December 22

C, B